

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Burt Robinson Examiner #: 716704 Date: 10/17/03  
 Art Unit: 1625 Phone Number 3065437 Serial Number: 07830423  
 Mail Box and Bldg/Room Location: CM1/3006 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

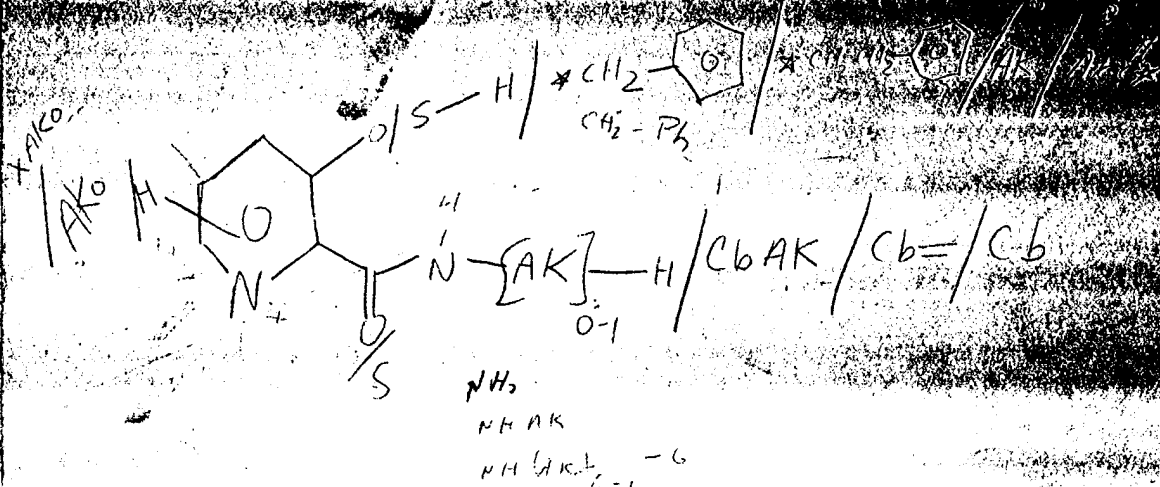
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



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(STIC)

## STAFF USE ONLY

Searcher: D. Schaefer  
 Searcher Phone #: 308-4292  
 Searcher Location: CM16403  
 Date Searcher Picked Up: 6/27/03  
 Date Completed: 6/27/03  
 Searcher Prep & Review Time: 37  
 Clerical Prep Time: \_\_\_\_\_  
 Online Time: 187

## Type of Search

NA Sequence (#) \_\_\_\_\_  
 AA Sequence (#) \_\_\_\_\_  
 Structure (#) 1  
 Bibliographic \_\_\_\_\_  
 Litigation \_\_\_\_\_  
 Fulltext \_\_\_\_\_  
 Patent Family \_\_\_\_\_  
 Other \_\_\_\_\_

## Vendors and cost where applicable

STN 502.68  
 Dialog \_\_\_\_\_  
 Questel/Orbit \_\_\_\_\_  
 Dr. Link \_\_\_\_\_  
 Lexis/Nexis \_\_\_\_\_  
 Sequence Systems \_\_\_\_\_  
 WWW/Internet \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

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# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 96761**

**TO: Binta M Robinson**  
**Location: CM1/3D06**  
**Art Unit: 1625**  
**Monday, June 30, 2003**

3D01

**Case Serial Number: 830923**

**From: David Schreiber**  
**Location: Biotech-Chem Library**  
**CM1-6A03**  
**Phone: 308-4292**

**david.schreiber@uspto.gov**

### **Search Notes**

Search structure described on request form

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 14:37:52 ON 27 JUN 2003

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FILE COVERS 1907 - 27 Jun 2003 VOL 138 ISS 26

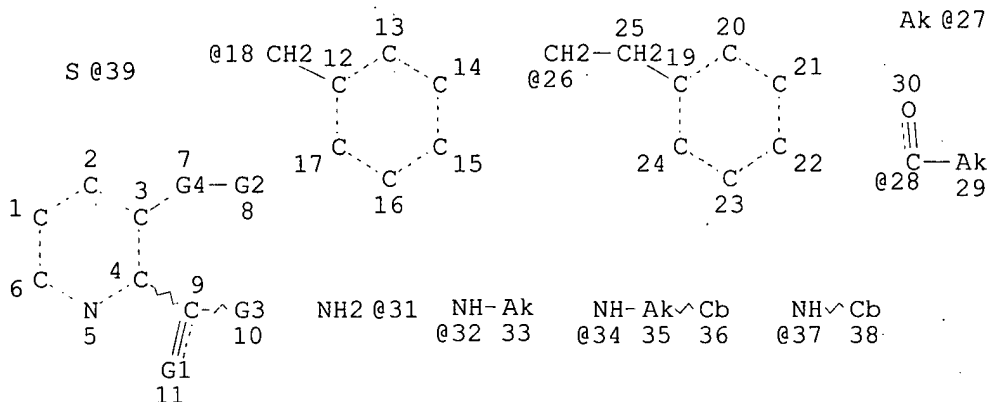
FILE LAST UPDATED: 25 Jun 2003 (20030625/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 130

L5

STR



Parent structure

used in full file search.

Does not limit <sup>for</sup> substituents on heterocycle

VAR G1=O/S

VAR G2=H/18/26/27/28

VAR G3=31/32/34/37

VAR G4=O/39

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 27

CONNECT IS E1 RC AT 29

CONNECT IS X2 RC AT 39

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1

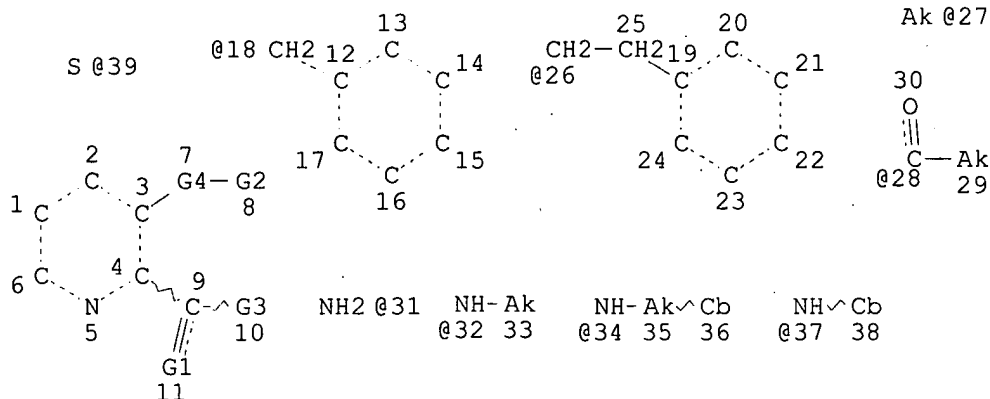
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L7 1222 SEA FILE=REGISTRY SSS FUL L5

L8

STR



substructure  
which limits parent  
structure based on all  
Hs at open positions  
on heterocycle

VAR G1=O/S

VAR G2=H/18/26/27/28

VAR G3=31/32/34/37

VAR G4=O/39

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 1  
 CONNECT IS E2 RC AT 2  
 CONNECT IS E2 RC AT 5  
 CONNECT IS E2 RC AT 6  
 CONNECT IS E1 RC AT 27  
 CONNECT IS E1 RC AT 29  
 CONNECT IS X2 RC AT 39  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1

NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L10 388 SEA FILE=REGISTRY SUB=L7 SSS FUL L8

L11 STR

Hy-G1	O-Ak	O-Ak-X
1 2	@3 4	@5 6 7

substructure which limits parent structure  
by substituting alkox or haloalkox on  
heterocycle

VAR G1=3/5

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 4  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS UNS AT 1  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 1

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L13 539 SEA FILE=REGISTRY SUB=L7 SSS FUL L11

L14 884 SEA FILE=REGISTRY L10 OR L13

L15 187 SEA FILE=HCAPLUS L14

← Total structures in registry for  
substructures L8 and L11  
Total references for structures  
in L14

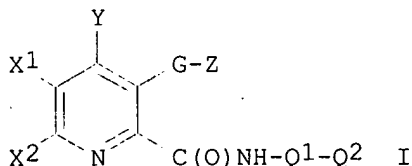
L28 23 SEA FILE=HCAPLUS L15 AND (FUNGICIDE# OR INSECTICIDE# OR  
HERBICIDE#)  
L29 3 SEA FILE=HCAPLUS L15 AND CONTROL?(5A) (FUNGUS OR FUNGI OR  
INSECT? OR PLANT? OR WEED? OR PEST?)  
L30 23 SEA FILE=HCAPLUS L28 OR L29

*Total references limited to pest etc,  
groups structures with references  
controllers*

=> d ibib abs hitstr l30 1-23

L30 ANSWER 1 OF 23 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2003:58080 HCAPLUS  
DOCUMENT NUMBER: 138:106603  
TITLE: Preparation of 4-substituted-picolinic acid amide  
derivatives useful as agrochemical **fungicides**  
INVENTOR(S): Hutin, Pierre; Muller, Benoit; Steele, Christopher  
Richard; Perez, Joseph; Genix, Pierre  
PATENT ASSIGNEE(S): Aventis Cropscience S.A., Fr.  
SOURCE: PCT Int. Appl., 59 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

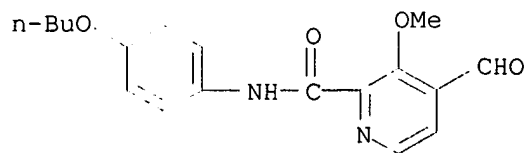
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006456	A1	20030123	WO 2002-EP8665	20020705
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2827286	A1	20030117	FR 2001-9195	20010711
PRIORITY APPLN. INFO.:			FR 2001-9195	A 20010711
OTHER SOURCE(S):		MARPAT 138:106603		
GI				



AB 4-Substituted-picolinic acid amide derivs. (shown as I; variables defined below; e.g. 2-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]-3-hydroxy-4-(imidazol-1-yl)pyridine), process for their prepg., fungicidal compns. comprising them, and a method for treating plants are claimed. For I: Y = -(CR5R6)kCHO, -(CR5R6)k-Het, -(CR5R6)kCH:NQ3 (k = 0-2; Het = 5-6- membered satd. or partially unsatd. or arom. ring contg. 1-3 heteroatoms = N, O,

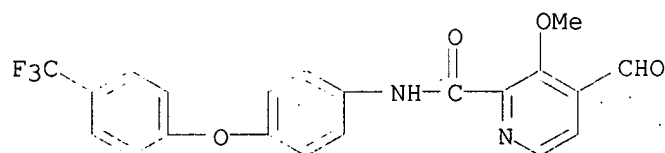
and S which can be identical or different and which can be substituted by one or two -R5; Q3 = -R1 or -OR). G = -(CH2)m-, -O-, -S- and -NR1; Z = -R1, C1-C4 alkylene, C1-C4 alkylyne, -Si(R1)3, -(CH2)p-OMe, -(CH2)p-SMe, -CH2O2CR1, -C(O)OnR1, (CH2)pC(O)C6H4R1, -C(O)NR1R3, -CH2On(CH2)pC6H4R2, S(O)2C6H4OR2 and (CH2)pC6H4OR1. X1 and X2 = H, halogen, -CF3, cyano and nitro; Q1 = -(CH2)q-, -(CH2)qC6H4R4r, pyrazolyl, R4r-substituted cyclohexyl, -(CH2)q(R4r-substituted pyridin-3-yl); Q2 = -(O)n-R5, cyano, -On(CH2)jC6H4R5t, -(CH2)jC6H4OnR5, -On(CH2)j(R5t-substituted pyridin-2-yl, pyrazol-1-yl, thien-2-yl), -2-R7-2-R8benzodioxol-5-yl and 2-R5-3-R6-2,3-dihydrobenzodioxin-6-yl. R1 = H or C1-C4 alkyl; R2 = H, halogen, C1-C4 alkyl, C1-C4 alkoxy, C1-C4 haloalkyl and C1-C4 haloalkoxy; R3 = H, C1-C4 alkyl and C1-C4 alkoxyalkyl; R4 halo, C1-C4 alkyl and C1-C4 alkoxyalkyl; R5 and R6 = H, halo, C1-C4 alkyl, C1-C4 haloalkyl; R7 and R8 = H and halo; n is 0 or 1; j, m, p, q and t = 0-4; r is 0-3. In vivo test on *Alternaria brassicae* (Leaf spot of crucifers) gave good (at least 50%) or total protection at a dose of 500 g/ha with 45 of I. In vivo test on *Septoria nodorum* (wheat Glume blotch) gave good (at least 50%) or total protection at a dose of 500 g/ha with 38 of I. In vivo test on *Erysiphe graminis* f. sp. *tritici* (powdery mildew of wheat) gave good (at least 50%) or total protection at a dose of 500 g/ha with 51 of I. In vivo test on *Septoria tritici* (Leaf spot of wheat) gave good (at least 50%) protection at a dose of 500 g/ha with 33 of I. In vivo test on *Puccinia recondita* (Wheat brown rust) gave good (at least 50%) protection at a dose of 500 g/ha with 21 of I. In vivo test on *Botrytis cinerea* (cucumber Gray mold) gave good (at least 50%) protection at a dose of 500 g/ha with 8 of I. Six example preps. of I are included as well as several example preps. of intermediates. For example, 2-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]-3-hydroxy-4-(imidazol-1-yl)pyridine was prepd. via intermediates 4-(imidazol-1-yl)-3-methoxy-2-cyanopyridine (from imidazole and 4-nitro-3-methoxy-2-cyanopyridine) and 4-(imidazol-1-yl)-3-methoxynicotinic acid.

- IT **488728-96-7P**, N-(4-Butoxyphenyl)-4-formyl-3-methoxypyridine-2-carboxamide **488728-97-8P**, N-(4-(4-(Trifluoromethyl)phenoxy)phenyl)-4-formyl-3-methoxypyridine-2-carboxamide **488729-69-7P**, N-(4-(4-(Trifluoromethyl)phenoxy)phenyl)-4-(dioxolan-2-yl)-3-methoxypyridine-2-carboxamide **488729-72-2P**, N-(4-(4-(Trifluoromethyl)phenoxy)phenyl)-3-methoxy-4-(pyrrol-1-yl)pyridine-2-carboxamide **488729-74-4P**, N-(4-(3-(Trifluoromethyl)phenoxy)phenyl)-3-methoxy-4-(pyrrol-1-yl)pyridine-2-carboxamide **488729-76-6P**, N-(4-(4-(Trifluoromethyl)phenoxy)phenyl)-3-methoxy-4-(2,5-dimethylpyrrol-1-yl)pyridine-2-carboxamide **488729-77-7P**, N-(4-(3-(Trifluoromethyl)phenoxy)phenyl)-3-methoxy-4-(2,5-dimethylpyrrol-1-yl)pyridine-2-carboxamide
- RL: AGR (Agricultural use); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (prepn. of 4-substituted-picolinic acid amide derivs. useful as agrochem. **fungicides**)
- RN **488728-96-7** HCAPLUS
- CN **2-Pyridinecarboxamide, N-(4-butoxyphenyl)-4-formyl-3-methoxy-** (9CI) (CA INDEX NAME)



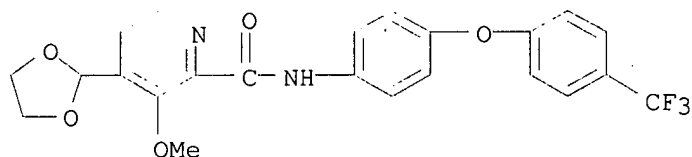
RN 488728-97-8 HCAPLUS

CN 2-Pyridinecarboxamide, 4-formyl-3-methoxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



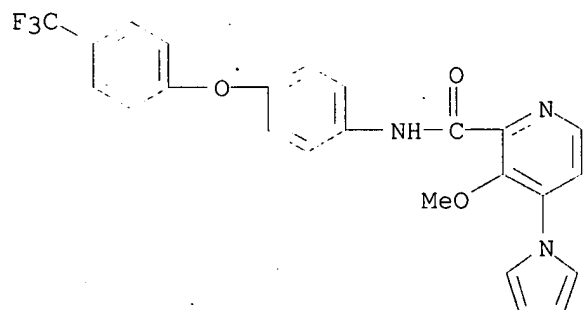
RN 488729-69-7 HCAPLUS

CN 2-Pyridinecarboxamide, 4-(1,3-dioxolan-2-yl)-3-methoxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



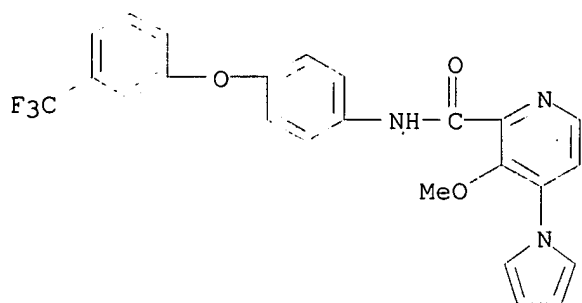
RN 488729-72-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-methoxy-4-(1H-pyrrol-1-yl)-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



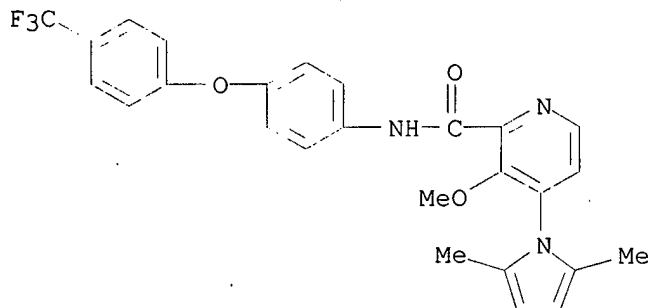
RN 488729-74-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-methoxy-4-(1H-pyrrol-1-yl)-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



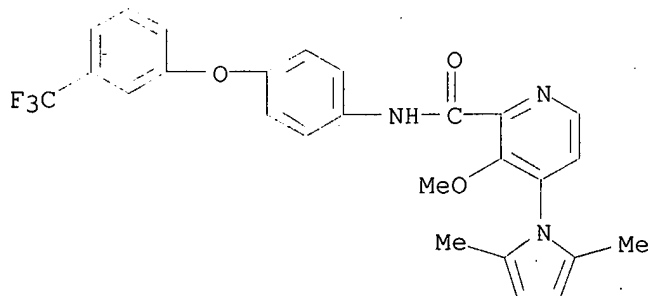
RN 488729-76-6 HCAPLUS

CN 2-Pyridinecarboxamide, 4-(2,5-dimethyl-1H-pyrrol-1-yl)-3-methoxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 488729-77-7 HCAPLUS

CN 2-Pyridinecarboxamide, 4-(2,5-dimethyl-1H-pyrrol-1-yl)-3-methoxy-N-[4-[3-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER.2 OF 23 HCAPLUS COPYRIGHT 2003 ACS

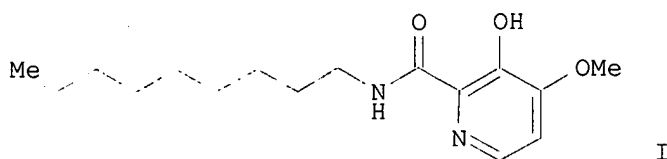
ACCESSION NUMBER: 2002:262139 HCAPLUS

DOCUMENT NUMBER: 137:30441

TITLE: UK-2A, B, C, and D, novel antifungal antibiotics from Streptomyces sp. 517-02: VII. Membrane injury induced by C9-UK-2A, a derivative of UK-2A, in Rhodotorula,



AUTHOR(S): mucilaginosa IFO 0001  
Tani, Kazunori; Usuki, Yoshinosuke; Motoba, Kazuhiko;  
Fujita, Ken-Ichi; Taniguchi, Makoto  
CORPORATE SOURCE: Graduate School of Science, Osaka City University,  
Osaka, 558-8585, Japan  
SOURCE: Journal of Antibiotics (2002), 55(3), 315-321  
CODEN: JANTAJ; ISSN: 0021-8820  
PUBLISHER: Japan Antibiotics Research Association  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



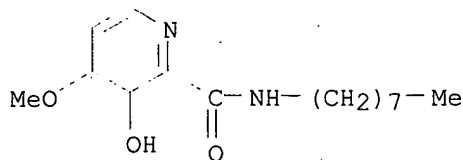
AB UK-2A is a potent antifungal antibiotic and its structure is highly similar to that of antimycin A3 (AA). UK-2A and AA inhibit mitochondrial electron transport at complex III. However, the antifungal activities of UK-2A and AA disappear after 48-h treatment. In an attempt to improve the duration of the antifungal activity of UK-2A, several UK-2A derivs. were prepd. by substituting its nine-membered dilactone ring with an n-alkyl or an isoprenyl moiety. Among all the derivs. tested, C9-UK-2A (I) and C10-UK-2A showed the most potent and durable antifungal activities against a strict aerobic yeast, *Rhodotorula mucilaginosa* IFO 0001. I, in particular, continued to demonstrate its broad-spectrum antifungal activity after 120-h treatment. Therefore, we focused on I to further examine its mode of action against the yeast. Interestingly, I did not inhibit cellular respiration of the cells even at concns. greater than 100 .mu.g/mL. I gradually induced the efflux of potassium ions from the cells. Moreover, I gradually induced the release of glucose from glucose-encapsulating liposomes. The patterns of efflux and release induced by I were not as rapid as those seen with amphotericin B. These results suggest a membrane injury caused by I in *R. mucilaginosa* IFO 0001.

IT 267416-35-3, C8-UK-2A 321598-14-5 366791-61-9,  
C16-UK-2A 366791-62-0, C12-UK-2A 366791-63-1, C4-UK-2A  
366791-64-2 366791-65-3 437651-13-3, C10-UK-2A  
437651-14-4, C11-UK-2A

RL: PAC (Pharmacological activity); BIOL (Biological study)  
(activity of UK-2A and derivs. against *Rhodotorula mucilaginosa*)

RN 267416-35-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-octyl- (9CI) (CA INDEX NAME)

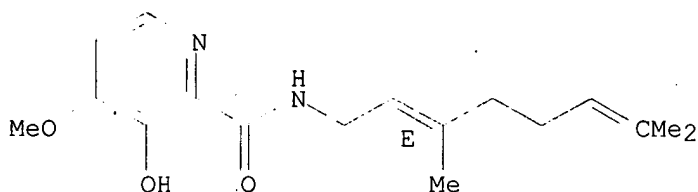


RN 321598-14-5 HCAPLUS

Robinson 09/830,923

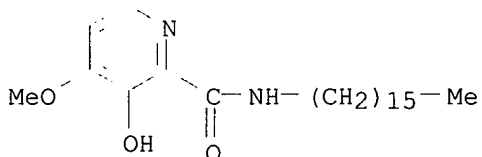
CN 2-Pyridinecarboxamide, N-[(2E)-3,7-dimethyl-2,6-octadienyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



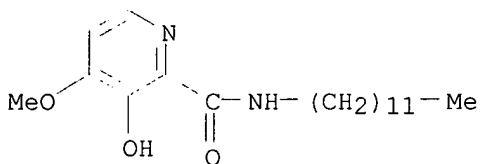
RN 366791-61-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-hexadecyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



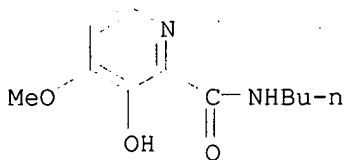
RN 366791-62-0 HCAPLUS

CN 2-Pyridinecarboxamide, N-dodecyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 366791-63-1 HCAPLUS

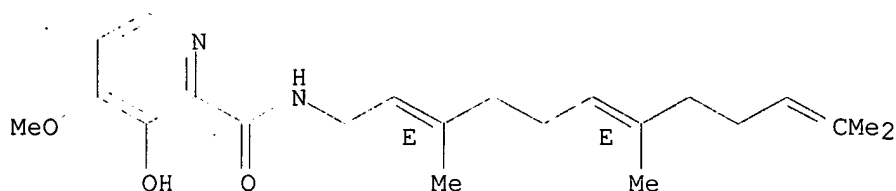
CN 2-Pyridinecarboxamide, N-butyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



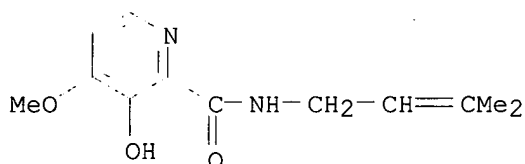
RN 366791-64-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

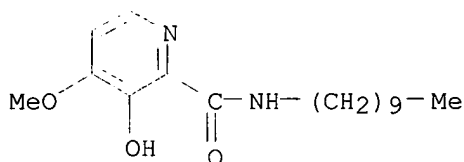
Double bond geometry as shown.



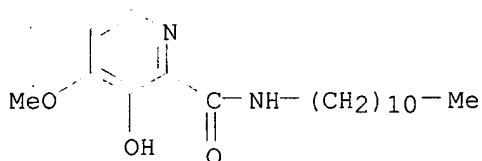
RN 366791-65-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3-methyl-2-butenyl)- (9CI)  
(CA INDEX NAME)



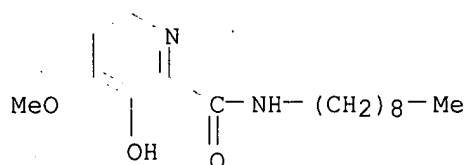
RN 437651-13-3 HCAPLUS  
CN 2-Pyridinecarboxamide, N-decyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 437651-14-4 HCAPLUS  
CN 2-Pyridinecarboxamide, N-undecyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



IT 437651-11-1, C9-UK-2A  
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(membrane injury induced by the Streptomyces antifungal antibiotic UK-2A deriv. C9-UK-2A in Rhodotorula mucilaginosa IFO 0001)  
RN 437651-11-1 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-nonyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:220560 HCAPLUS

DOCUMENT NUMBER: 136:263098

TITLE: Preparation of pyridinyl amides and imides for use as **fungicides**

INVENTOR(S): Neubert, Timothy Donald; Piotrowski, David Walter; Walker, Michael Paul

PATENT ASSIGNEE(S): E. I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 105 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

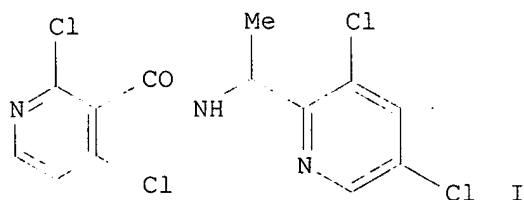
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022583	A2	20020321	WO 2001-US28971	20010917
WO 2002022583	A3	20020718		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002011233	A5	20020326	AU 2002-11233	20010917
PRIORITY APPLN. INFO.:			US 2000-233374P	P 20000918
			US 2001-277199P	P 20010320
			WO 2001-US28971	W 20010917

OTHER SOURCE(S): MARPAT 136:263098

GI



AB Title compds. [ACRR1R2YWB; A is a substituted pyridinyl ring; B is a

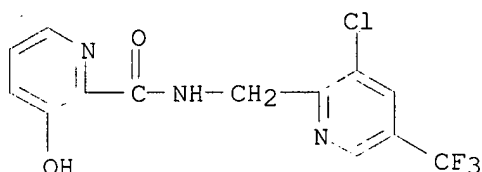
substituted pyridinyl ring; W is C:L, SOn; L = O, S, CXR4; R1 and R2 are each independently = H, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C3-C6 cycloalkyl, each optionally substituted; Y = NR3; R3 = H, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C3-C6 cycloalkyl, C2-C6 alkylcarbonyl, C2-C6 alkoxy carbonyl, C2-C6 alkylaminocarbonyl, C3-C8 dialkylaminocarbonyl; R4 = C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C3-C6 cycloalkyl, each optionally substituted; X = O, S; n = 1, 2; provided that when W is CO and R1, R2 and R3 are H; then B is other than 4-trifluoromethyl-3-pyridinyl, 2-chloro-4-pyridinyl and 2,6-dihalo-4-pyridinyl], N-oxides and agriculturally suitable salts are prepd. and disclosed which are useful as **fungicides**. Also disclosed are compns. contg. the compds. I and a method for **controlling plant** diseases caused by fungal **plant** pathogens that involves applying an effective amt. of a compd. I.

IT 404875-92-9P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. of pyridinyl amides and imides for use as **fungicides**)

RN 404875-92-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-3-hydroxy- (9CI) (CA INDEX NAME)



L30 ANSWER 4 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:560055 HCAPLUS

DOCUMENT NUMBER: 135:137518

TITLE: Preparation of pyrimidinylphenyloxazole derivatives as **herbicides**

INVENTOR(S): Ueda, Akiyoshi; Miyazawa, Yasuyuki; Hara, Yoshihiko; Koguchi, Masami; Takahashi, Akihiro; Kawana, Takashi

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: U.S., 41 pp., Cont.-in-part of U.S. 5,962,685.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

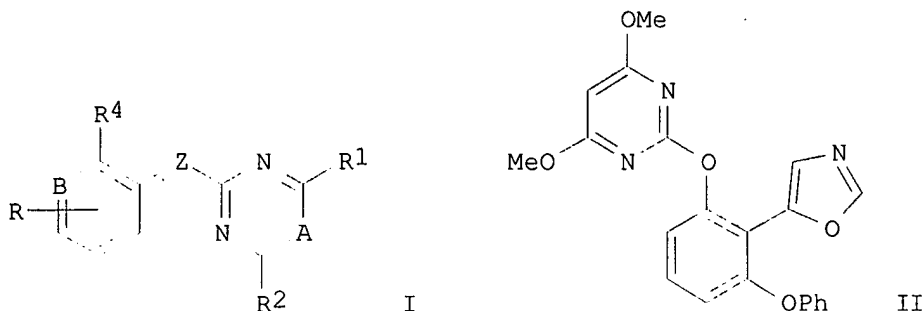
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6268310	B1	20010731	US 1999-248372	19990210
US 5962685	A	19991005	US 1997-750932	19970128
PRIORITY APPLN. INFO.:			US 1997-750932	A2 19970128
			JP 1994-200196	A 19940802
			JP 1994-200197	A 19940802
			WO 1995-JP1523	W 19950801

OTHER SOURCE(S): MARPAT 135:137518

GI



AB Title compds. [I; A = N or CR<sub>3</sub>; B = N or an (un)substituted C (sic); R = H or 1-4 of (halo)alkyl, alkenyl, alkynyl, etc.; ; R<sub>1</sub>,R<sub>2</sub> = H, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, etc.; R<sub>3</sub> = H, C1-6 alkyl, halo, NO<sub>2</sub>, CHO, acyl; R<sub>4</sub> = (un)substituted oxazolyl; Z = O or SOO-2] were prep'd. Thus, title compd. II (prepn. given) at 2.5 g/are gave 100% control of barnyard grass, *Cyperus difformis*, and *Scirpus juncoides*.

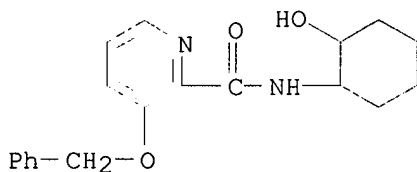
IT 177711-12-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of pyrimidinylphenyloxazole derivs. as **herbicides**)

RN 177711-12-5 HCAPLUS

CN 2-Pyridinecarboxamide, N-(2-hydroxycyclohexyl)-3-(phenylmethoxy)- (9CI)  
(CA INDEX NAME)



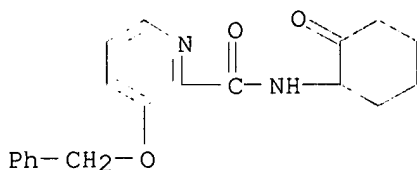
IT 177711-01-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of pyrimidinylphenyloxazole derivs. as **herbicides**)

RN 177711-01-2 HCAPLUS

CN 2-Pyridinecarboxamide, N-(2-oxocyclohexyl)-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 5 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:557166 HCAPLUS

DOCUMENT NUMBER: 135:300904

TITLE: UK-2A, B, C and D; novel antifungal antibiotics from Streptomyces sp. 517-02. VI (1). Structure-activity relationships of UK-2A  
 AUTHOR(S): Usuki, Yoshinosuke; Tani, Kazunori; Fujita, Ken-Ichi; Taniguchi, Makoto  
 CORPORATE SOURCE: Graduate School of Science, Osaka City University, Osaka, 558-8585, Japan  
 SOURCE: Journal of Antibiotics (2001), 54(7), 600-602  
 CODEN: JANTAJ; ISSN: 0021-8820  
 PUBLISHER: Japan Antibiotics Research Association  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

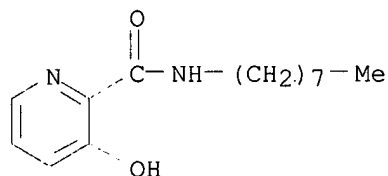
AB The synthesis of UK-2A analogs, where the nine-membered dilactone residue was replaced by several alkyl or isoprenyl moieties, and their biol. effects were studied. All the tested compds., such as UK-2A, AA, and their derivs., did not show any growth inhibitory activity against both Gram-neg. and Gram-pos. bacteria up to 100.mu.g/mL. Salicylic acid moiety or pyridinecarboxylic acid moiety plus a hydrophobic structure is at least necessary for expression of antifungal action. The 9-membered dilactone ring moiety itself is not essential for the antimicrobial activity, and C8-alkyl group is flexible and hydrophobic that makes C8-UK-2A interact the binding domain to prevent yeasts and filamentous fungi from growing. The decrease in activity of isoprenylated UK-2A derivs. was due to a loss of flexibility, which interferes in their taking active conformations. AA had strong cytotoxicity against porcine renal proximal tubule LLC-PK1 cells and other types of cultured cells compared to UK-2A. The inhibitory of UK-2A and AA for the uncoupler stimulated respiration of bovine heart submitochondrial particles was examd. C8-3MeOSA showed comparably high inhibitory activity similar to C8-AA and AA, although its antimicrobial activities were weaker than those were. The mode of action of C8-UK-2A would be different from that of UK-2A.

IT 116044-28-1 267416-35-3 321598-14-5  
 366791-61-9 366791-62-0 366791-63-1  
 366791-64-2 366791-65-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
 (UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. VI (1). Structure-activity relationships of UK-2A)

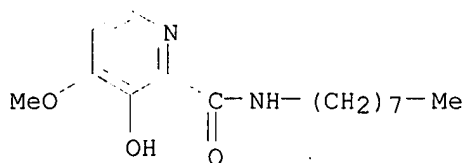
RN 116044-28-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-octyl- (9CI) (CA INDEX NAME)



RN 267416-35-3 HCAPLUS

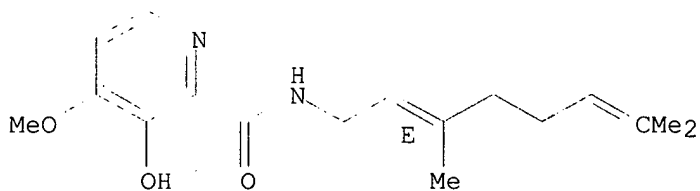
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-octyl- (9CI) (CA INDEX NAME)



RN 321598-14-5 HCAPLUS

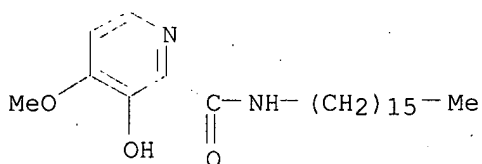
CN 2-Pyridinecarboxamide, N-[(2E)-3,7-dimethyl-2,6-octadienyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



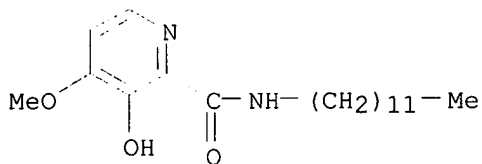
RN 366791-61-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-hexadecyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 366791-62-0 HCAPLUS

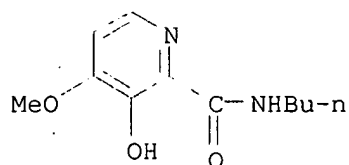
CN 2-Pyridinecarboxamide, N-dodecyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 366791-63-1 HCAPLUS

CN 2-Pyridinecarboxamide, N-butyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

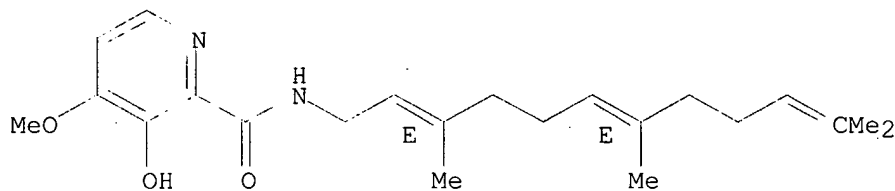




RN 366791-64-2 HCAPLUS

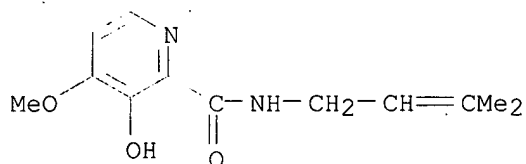
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 366791-65-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 6 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:507680 HCAPLUS

DOCUMENT NUMBER: 135:92548

TITLE: Preparation of hydroxypicolinic acid derivatives for agrochemical and pharmaceutical use as **fungicides**

INVENTOR(S): Bacque, Eric; Barriere, Jean-Claude; Vors, Jean-Pierre; Nieto-Roman, Francisco; Villier, Alain

PATENT ASSIGNEE(S): Aventis Cropscience S.A., Fr.; Aventis Pharma S.A.

SOURCE: PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001049667	A1	20010712	WO 2001-FR44	20010108

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

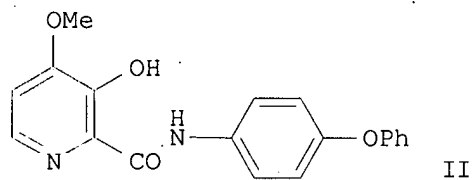
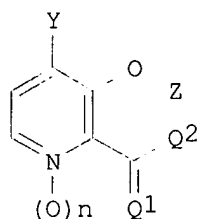
FR 2803592 A1 20010713 FR 2000-140 20000106  
 EP 1248771 A1 20021016 EP 2001-903885 20010108

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

BR 2001007425 A 20021203 BR 2001-7425 20010108  
 JP 2003519215 T2 20030617 JP 2001-550207 20010108

PRIORITY APPLN. INFO.: FR 2000-140 A 20000106  
 WO 2001-FR44 W 20010108

OTHER SOURCE(S): MARPAT 135:92548  
 GI



AB Hydroxypicolinic acid derivs., such as I [Q1 = O, imino, aminoimino; Q2 = alkyloxy, alkylthio, cycloalkyloxy, cycloalkylthio, amino, etc.; Y = H, OH, NH2, N3, CN, NO2, alkyloxy, alkylthio, acylamino, etc.; Z = H, alkyl, aryl, allyl, propargyl, cycloalkyl, etc.; n = 0, 1], were prep'd. for agrochem. and pharmaceutical use as **fungicides**. Thus, picolinamide II was prep'd. by amidation of 3-hydroxy-4-methoxypyridine-2-carboxylic acid with 4-phenoxyaniline using 1-hydroxybenzotriazole and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride in pyridine at 75-85.degree. for 1-2 h. Fungicidal biol. testing data for the prep'd. hydroxypicolinates was not presented.

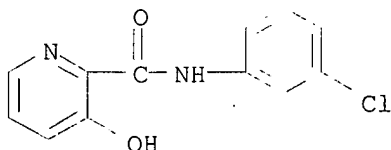
IT 1085-36-5P 2052-55-3P 267415-52-1P  
 267415-54-3P 267415-57-6P 267415-60-1P  
 267415-69-0P 267415-77-0P 267415-89-4P  
 267416-16-0P 267416-48-8P 267416-59-1P  
 267416-63-7P 313643-54-8P 313643-77-5P  
 313643-78-6P 321597-91-5P 321597-95-9P  
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348634-99-1P 348635-00-7P 348635-01-8P  
348635-02-9P 348635-03-0P 348635-21-2P

RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of hydroxypicolinic acid derivs. for agrochem. and pharmaceutical use as **fungicides**)

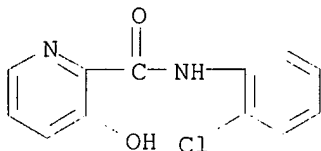
RN 1085-36-5 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



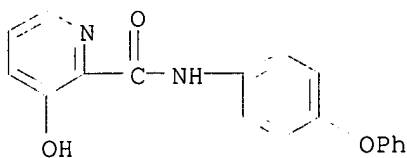
RN 2052-55-3 HCAPLUS

CN 2-Pyridinecarboxamide, N-(2-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



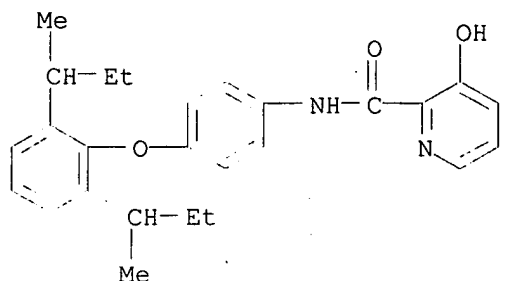
RN 267415-52-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)



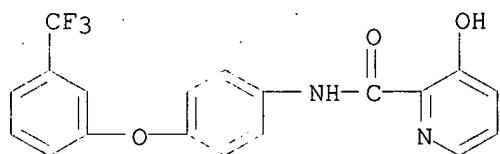
RN 267415-54-3 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-[2,6-bis(1-methylpropyl)phenoxy]phenyl]-3-hydroxy- (9CI) (CA INDEX NAME)



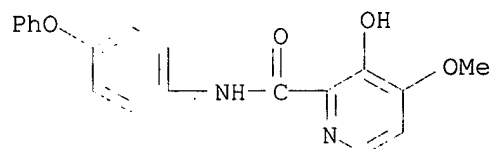
RN 267415-57-6 HCAPLUS

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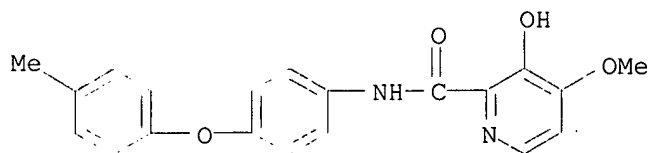
RN 267415-60-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)



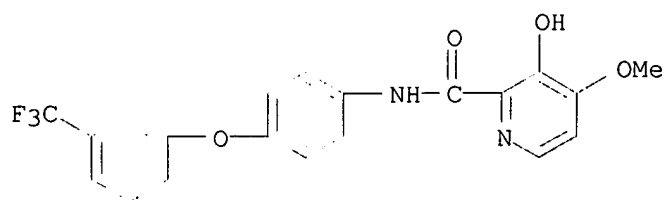
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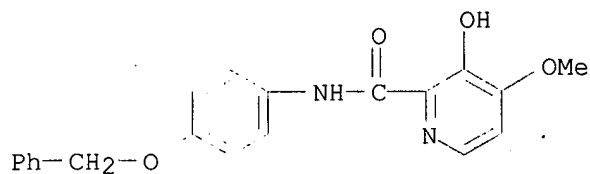


RN 267415-77-0 HCAPLUS

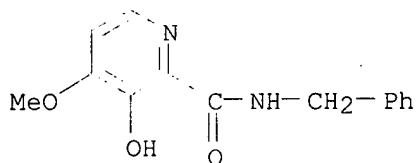
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[3-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



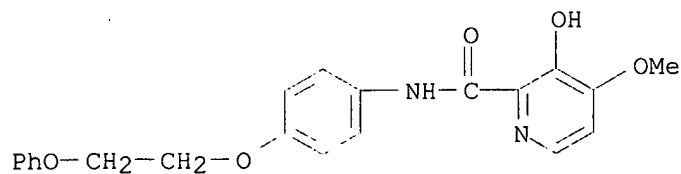
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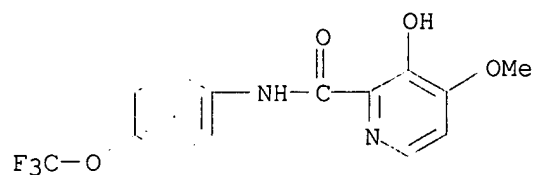
RN 267416-16-0 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(phenylmethyl)- (9CI) (CA  
INDEX NAME)



RN 267416-48-8 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(2-phenoxyethoxy)phenyl]-  
(9CI) (CA INDEX NAME)

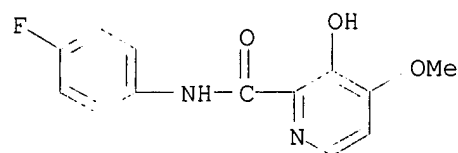


RN 267416-59-1 HCAPLUS  
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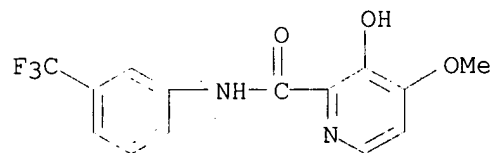
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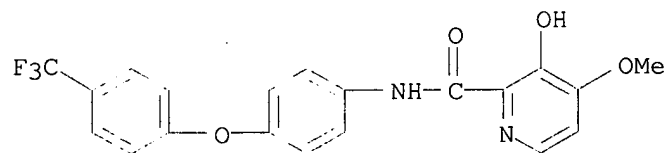
RN 313643-54-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



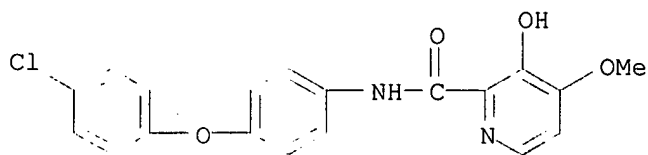
RN 313643-77-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)

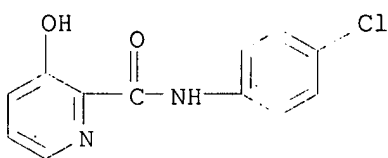


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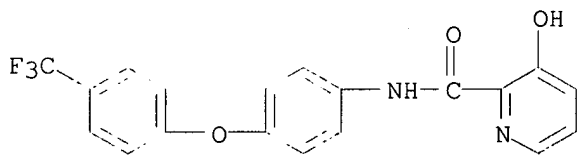
CN 2-Pyridinecarboxamide, N-[4-(4-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



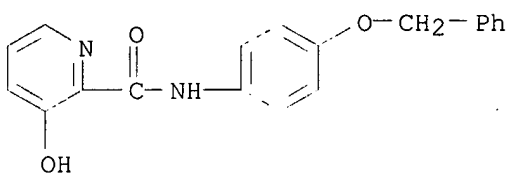
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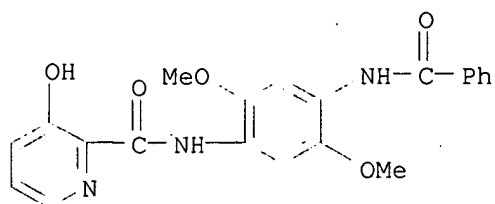
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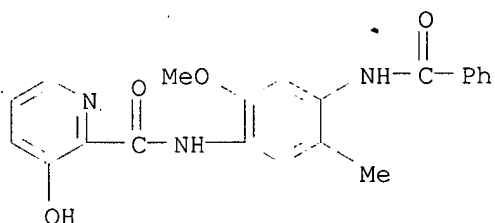
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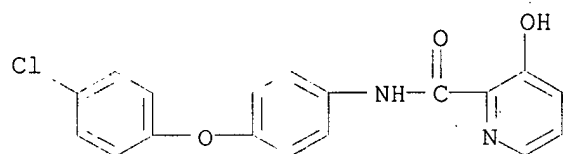
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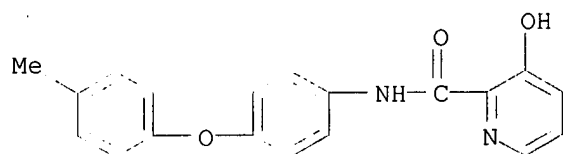
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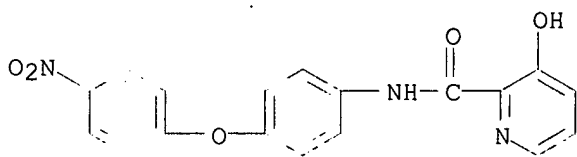


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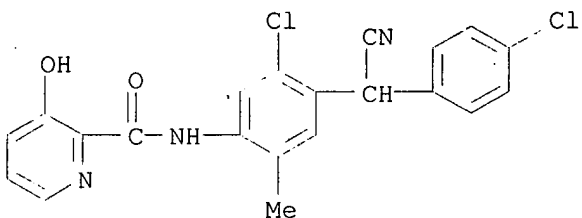
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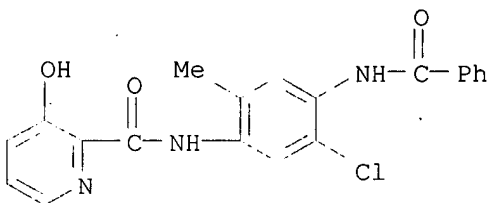
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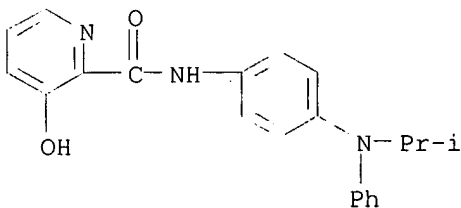
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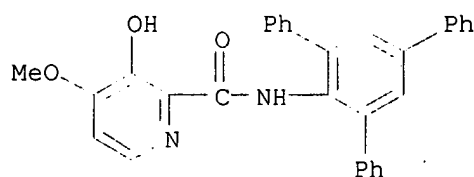
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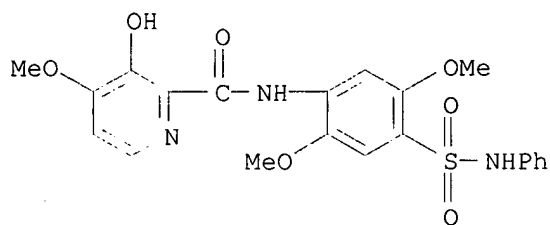


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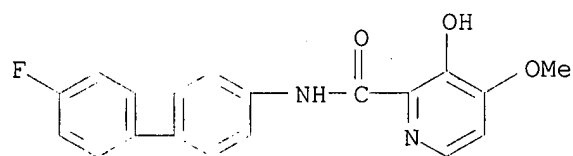
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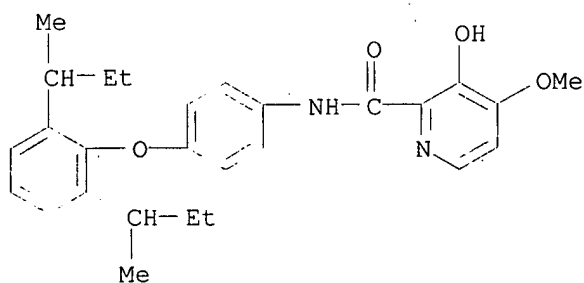
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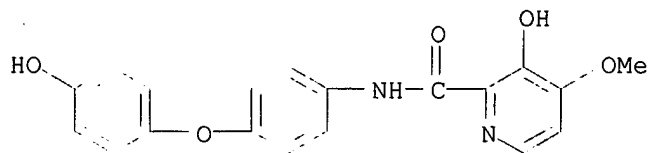


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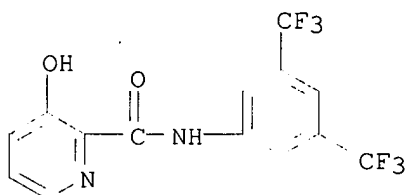
RN 348633-81-8 HCAPLUS  
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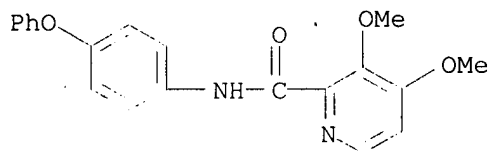
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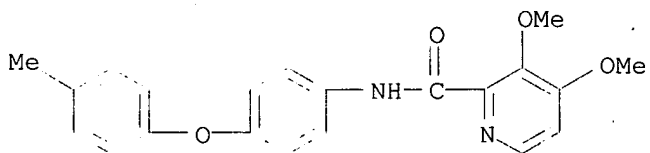
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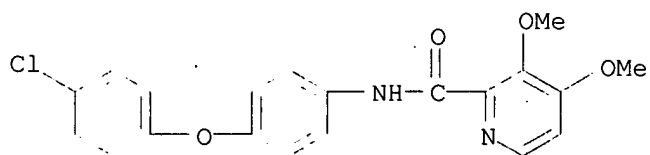
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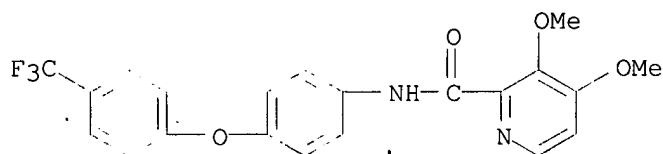
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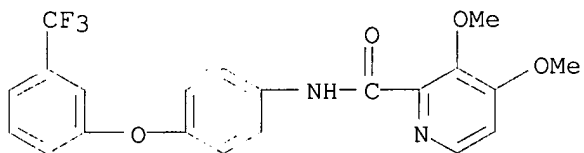
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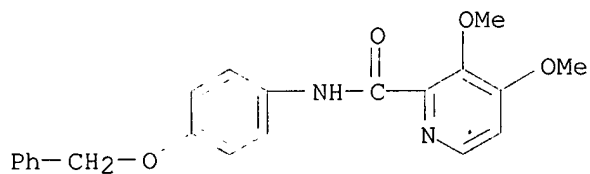
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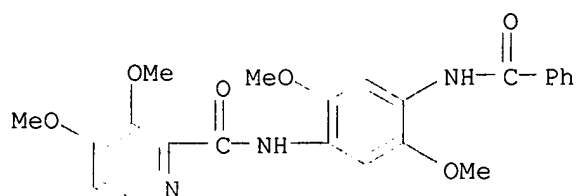
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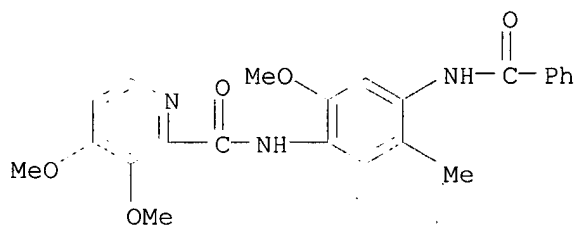


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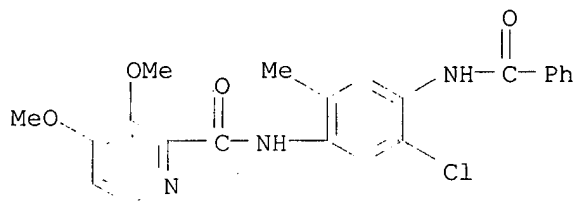
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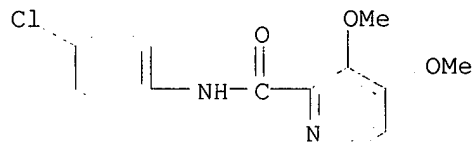
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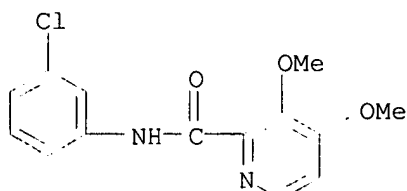
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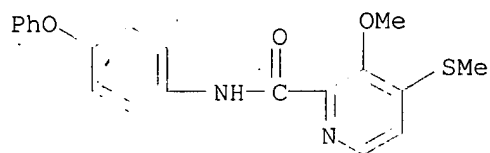
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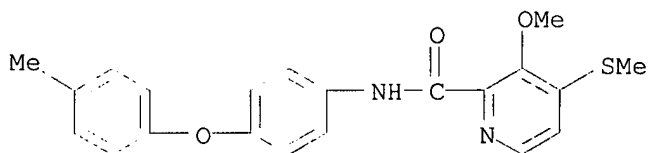
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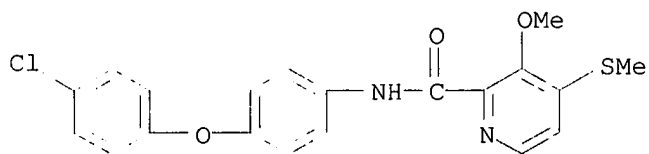
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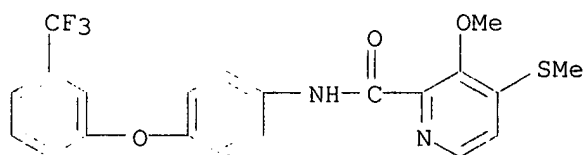
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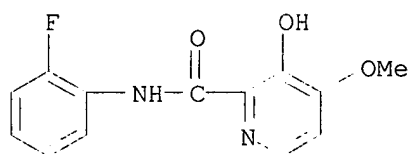


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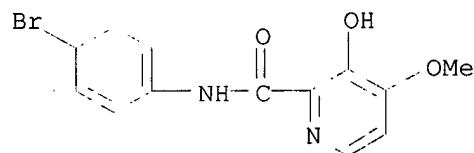
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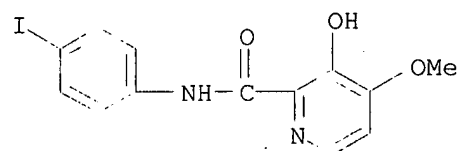
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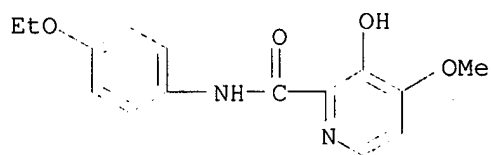
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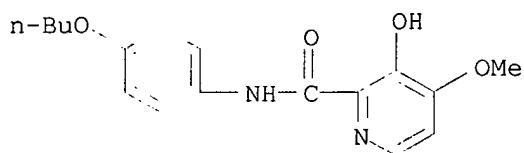
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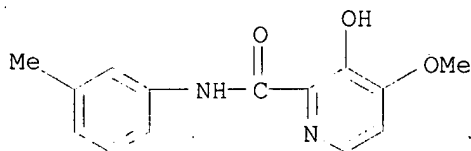
Robinson 09/830,923



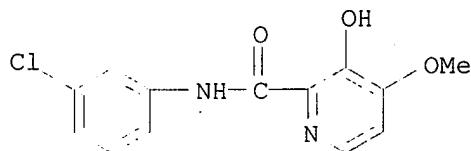
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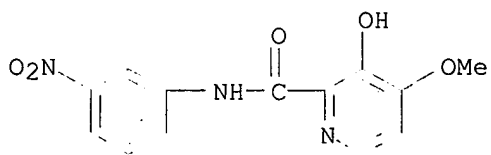


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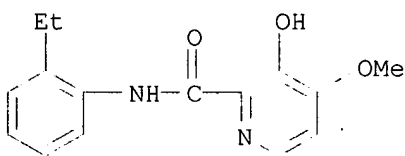
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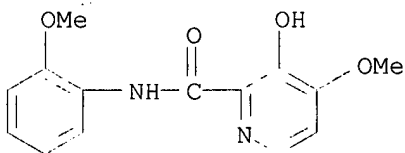
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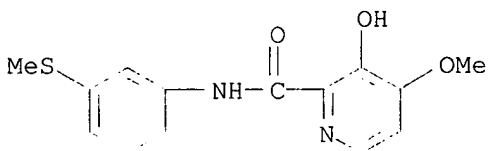
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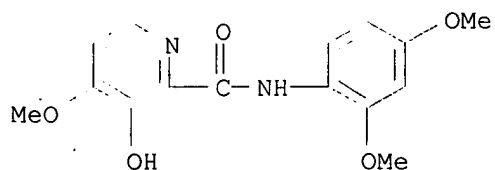
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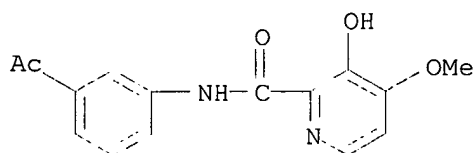
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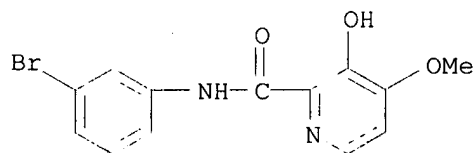
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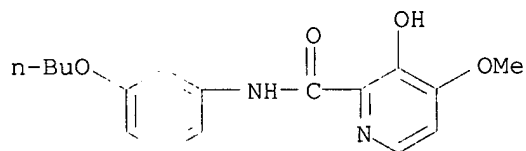
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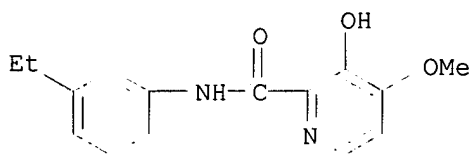
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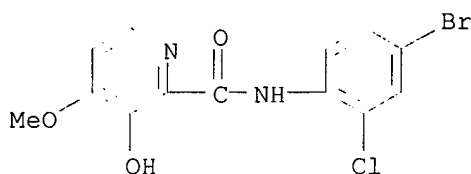
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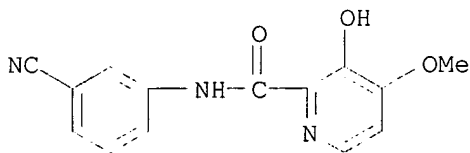
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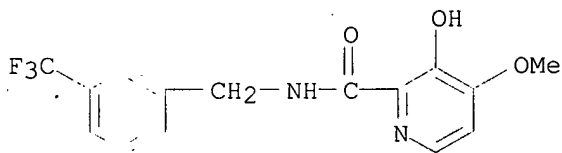
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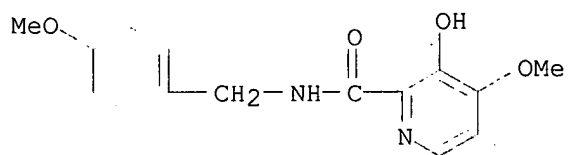
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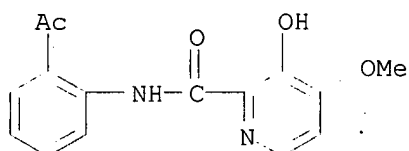


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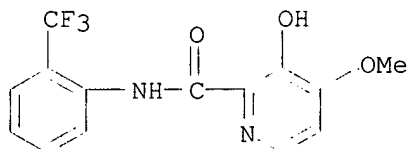
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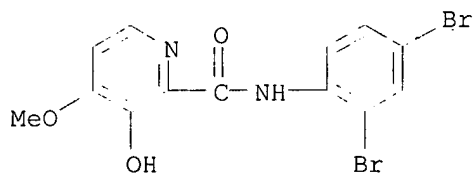
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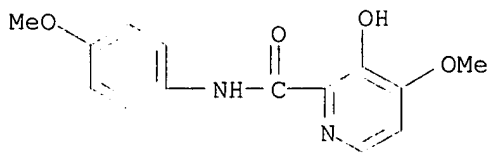
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RN 348635-21-2 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 7 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:507679 HCAPLUS

DOCUMENT NUMBER: 135:92547

TITLE: Preparation of picolinic acid derivs. for agrochemical and therapeutic use as **fungicides**

INVENTOR(S): Nieto-Roman, Francisco; Vors, Jean-Pierre; Villier, Alain; Lachaise, Helene; Mousques, Adeline; Hartmann, Benoit; Hutin, Pierre; Molina, Jose Lorenzo; Muller, Benoit

PATENT ASSIGNEE(S): Aventis Cropscience S.A., Fr.

SOURCE: PCT Int. Appl., 121 pp.

CODEN: PIXXD2

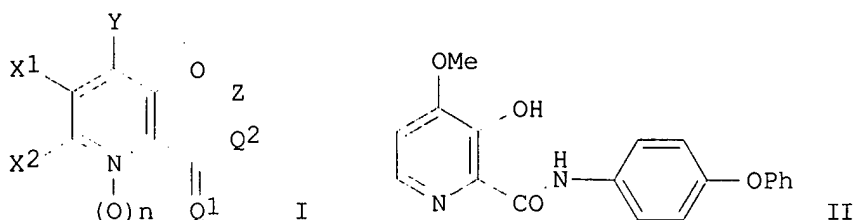
DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001049666	A1	20010712	WO 2001-FR33	20010105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2803592	A1	20010713	FR 2000-140	20000106
BR 2001007241	A	20020709	BR 2001-7241	20010105
EP 1244627	A1	20021002	EP 2001-903877	20010105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003519214	T2	20030617	JP 2001-550206	20010105
BG 106834	A	20030131	BG 2002-106834	20020618
PRIORITY APPLN. INFO.:				
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			WO 2001-FR33	W 20010105
OTHER SOURCE(S): MARPAT 135:92547				
GI				



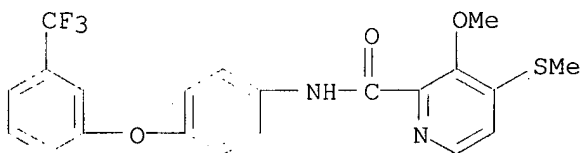
AB Picolinic acid derivs., such as I [Q1 = O, imino, aminoimino; Q2 = alkyloxy, alkylthio, cycloalkyloxy, cycloalkylthio, amino, etc.; Y = H, OH, NH2, N3, CN, NO2, alkyloxy, alkylthio, acylamino, etc.; X1, X2 = H, OH, SH, NO2, SCN, N3, CN, halogen, alkyl, alkoxy, alkylthio, etc.; Z = H, alkyl, aryl, allyl, propargyl, cycloalkyl, etc.; n = 0, 1], were prepd. for agrochem. use against plant fungal pathogens and pharmaceutical use as **fungicides**. Thus, picolinamide II was prepd. by amidation of 3-hydroxy-4-methoxypyridine-2-carboxylic acid with 4-phenoxyaniline using 1-hydroxybenzotriazole and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride in pyridine at 85.degree. for 2 h. The prepd. picolinic acid derivs. were tested for activity against fungal strains, such as *Alternaria brassicae* and *Septoria nodorum*.

IT 348634-67-3P 349470-82-2P 349470-83-3P  
349471-41-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of picolinic acid derivs. for agrochem. and therapeutic use as **fungicides**)

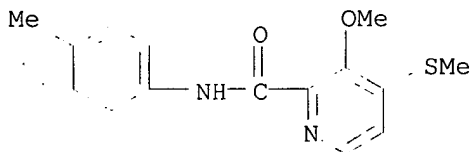
RN 348634-67-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-methoxy-4-(methylthio)-N-[4-[3-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 349470-82-2 HCAPLUS

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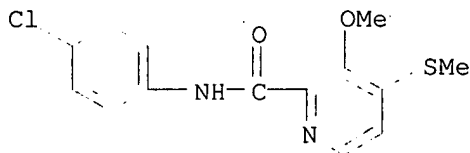


RN 349470-83-3 HCAPLUS

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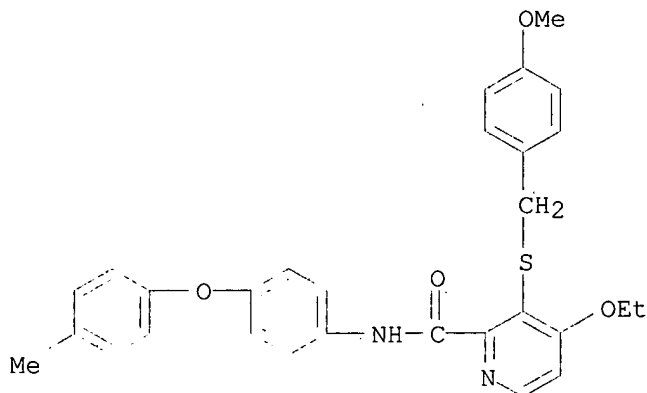
Robinson 09/830,923

(CA INDEX NAME)



RN 349471-41-6 HCAPLUS

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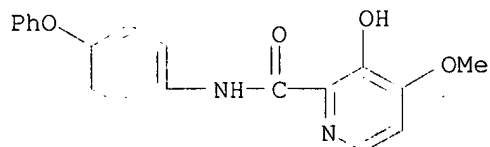


IT 267415-60-1P

RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of picolinic acid derivs. for agrochem. and therapeutic use as **fungicides**)

RN 267415-60-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 8 OF 23 HCAPLUS. COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:152650 HCAPLUS

DOCUMENT NUMBER: 134:207831

TITLE: Preparation, composition and use of heterocyclic aromatic amides as **fungicides**

INVENTOR(S): Ricks, Michael John; Dent, William Hunter, III;

Rogers, Richard Brewer; Yao, Chenglin; Nader, Bassam  
 Salim; Miesel, John Louis; Fitzpatrick, Gina Marie;  
 Meyer, Kevin Gerald; Niyaz, Noormohamed Mohamed;  
 Morrison, Irene Mae; Henry, Matthew James; Adamski,  
 Butz Jenifer Lynn; Gajewski, Robert Peter

PATENT ASSIGNEE(S):

Dow Agrosciences LLC, USA

SOURCE:

PCT Int. Appl., 200 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001014339	A2	20010301	WO 2000-US21523	20000804
WO 2001014339	A3	20011115		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6521622	B1	20030218	US 2000-620662	20000720
US 6355660	B1	20020312	US 2000-632930	20000804
EP 1204643	A2	20020515	EP 2000-952599	20000804
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EP 1234823	A2	20020828	EP 2002-9583	20000804
EP 1234823	A3	20030618		
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EP 1234825	A2	20020828	EP 2002-9585	20000804
EP 1234825	A3	20030618		
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US 2002177578	A1	20021128	US 2001-22413	20011213
US 2003018052	A1	20030123	US 2001-22207	20011213
US 2003018012	A1	20030123	US 2001-22511	20011213
US 2003022902	A1	20030130	US 2001-22483	20011213
US 2003022903	A1	20030130	US 2001-23497	20011213
PRIORITY APPLN. INFO.:			US 1999-149977P	P 19990820
			US 1999-150248P	P 19990823
			US 2000-620662	A 20000720



US 1999-144676P P 19990720  
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 US 2000-632930 A3 20000804  
 WO 2000-US21523 W 20000804

OTHER SOURCE(S): MARPAT 134:207831  
 GI

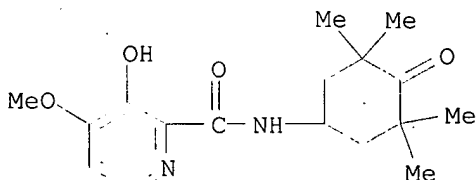
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. [I; wherein X1-X4 independently = O, S, NR1, N, CR2, bond; R1 = H, C1-3 alkyl, C2-3 alkenyl, C2-3 alkynyl, OH, CHF2, C1-4 alkoxy; R2 = H, F, Cl, Br, CN, OH, C1-3 alkyl, C1-3 haloalkyl cyclopropyl, C1-3 alkoxy; Z = O, S, NOH, NOR3; R3 = C1-3 alkyl; A = C1-14 alkyl, C1-14 alkynyl, C1-14 cycloalkyl, aryl, heteroaryl, Q; M = H, Si(t-Bu)Me2, Si(Ph)Me2, SiEt3, CZR4, SO2R5; R4 = H, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl; R5 = aryl, heteroaryl, C1-6 alkyl, C2-6 alkenyl, C3-6 alkenyl, C3-6 alkynyl, C3-6 cycloalkyl; X, Y independently = O, S; W = O, CH2, bond; R = C1-8 alkyl, C2-8 alkenyl, C2-8 alkynyl, C3-8 cycloalkyl, aryl, heteroaryl; R11 = H, C1-3 alkyl, C2-5 alkenyl, C2-5 alkynyl; R10 = H, R, OR, OCOR, OCOOR; R8, R9 independently = H, C1-6 alkyl, C2-6 alkenyl; R6, R7 independently = H, C1-6 alkyl, C2-6 alkenyl, C2-5 alkynyl, C3-6 cycloalkyl] are prepd. as **fungicides** involving application methods of effective usage of title compds. to **control fungi**, particularly **plant** pathogens and wood decaying fungi. The invention also encompasses hydrates, salts and complexes thereof. The title compd. II was prepd. and tested as **fungicide**.

IT **321598-36-1P 321599-09-1P**  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (prepn. and fungicidal activity of heterocyclic arom. amides)

RN 321598-36-1 HCAPLUS

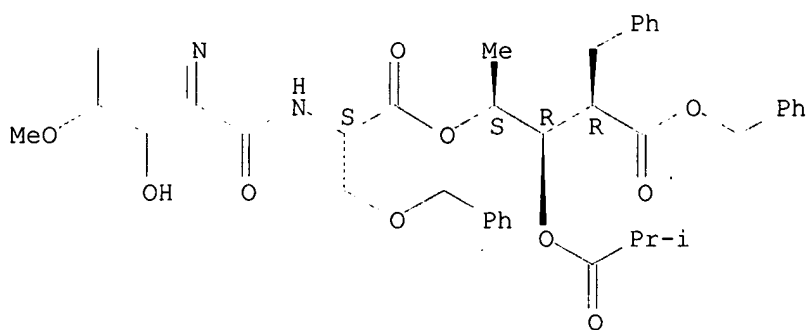
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3,3,5,5-tetramethyl-4-oxocyclohexyl)- (9CI) (CA INDEX NAME)



RN 321599-09-1 HCAPLUS

CN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, phenylmethyl ester, 3-(2-methylpropanoate), 4-ester with N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)-L-serine (9CI) (CA INDEX NAME)

Absolute stereochemistry.



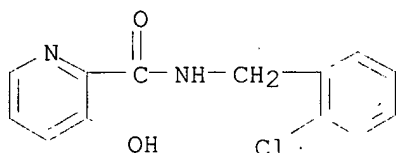
IT 1025-66-7P 1025-67-8P 1085-36-5P  
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 1089-26-5P 166820-04-8P 267415-66-7P  
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 313643-56-0P 313643-75-3P 313643-77-5P  
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 321744-54-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and fungicidal activity of heterocyclic arom. amides)

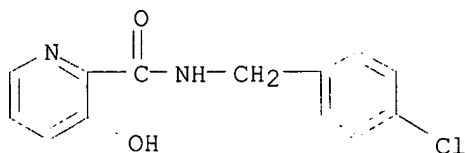
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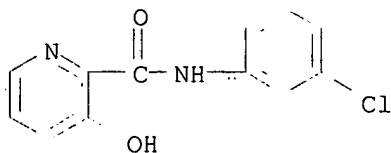
RN 1025-67-8 HCAPLUS

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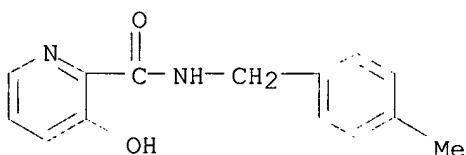
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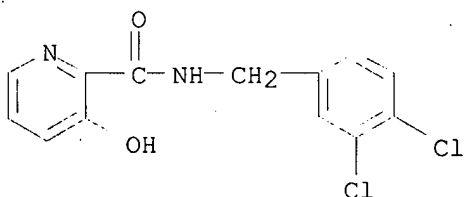
RN 1086-63-1 HCAPLUS

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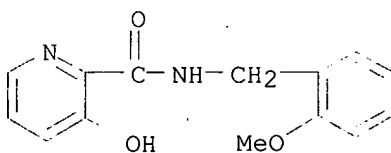
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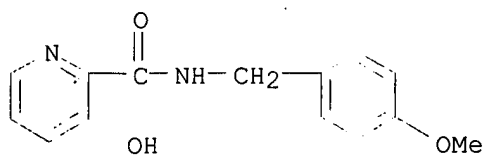
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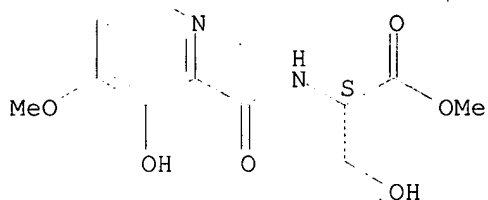
RN 1089-26-5 HCAPLUS

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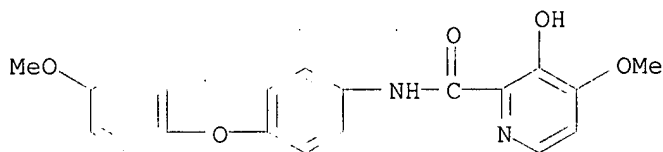


RN 166820-04-8 HCAPLUS  
 CN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester  
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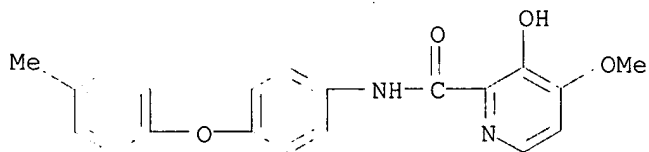
Absolute stereochemistry.



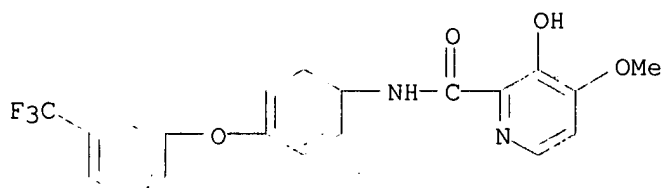
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 (9CI) (CA INDEX NAME)



RN 267415-69-0 HCAPLUS  
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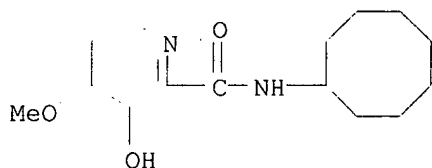


RN 267415-77-0 HCAPLUS  
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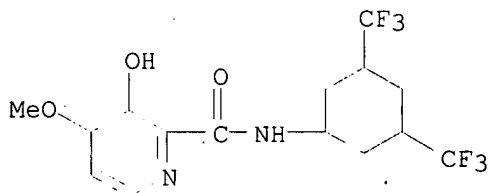
RN 267415-93-0 HCAPLUS

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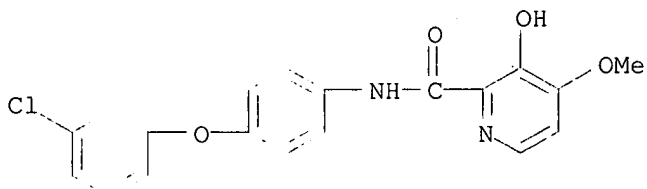
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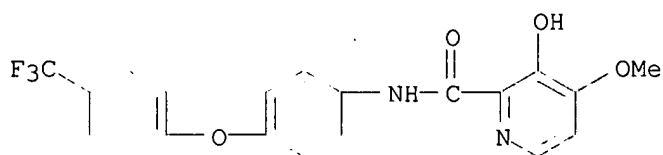
RN 313643-75-3 HCAPLUS

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(9CI) (CA INDEX NAME)



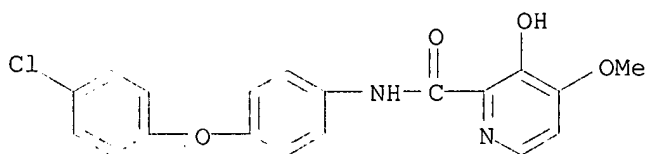
RN 313643-77-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



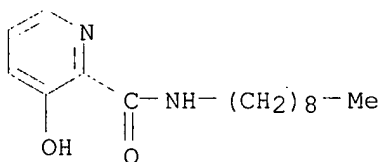
RN 313643-78-6 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-(4-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



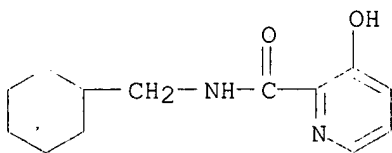
RN 321597-80-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-nonyl- (9CI) (CA INDEX NAME)



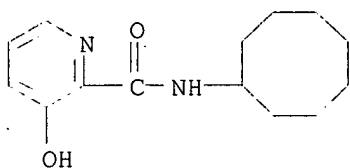
RN 321597-81-3 HCAPLUS

CN 2-Pyridinecarboxamide, N-(cyclohexylmethyl)-3-hydroxy- (9CI) (CA INDEX NAME)



RN 321597-82-4 HCAPLUS

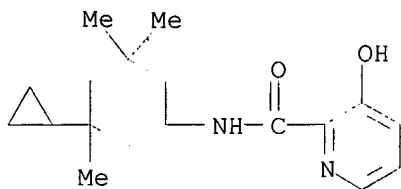
CN 2-Pyridinecarboxamide, N-cyclooctyl-3-hydroxy- (9CI) (CA INDEX NAME)



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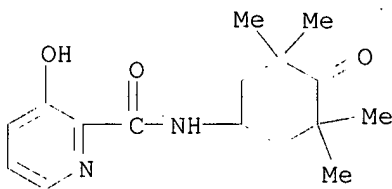
RN 321597-83-5 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-cyclopropyl-3,5,5-trimethylcyclohexyl)-3-hydroxy- (9CI) (CA INDEX NAME)



RN 321597-84-6 HCAPLUS

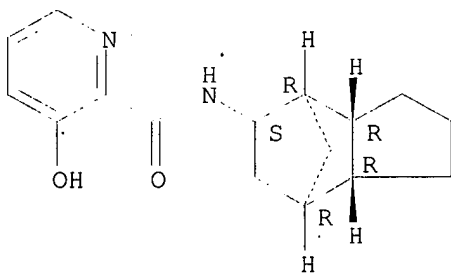
CN 2-Pyridinecarboxamide, 3-hydroxy-N-(3,3,5,5-tetramethyl-4-oxocyclohexyl)- (9CI) (CA INDEX NAME)



RN 321597-85-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(3aR,4R,5S,7R,7aR)-octahydro-4,7-methano-1H-inden-5-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

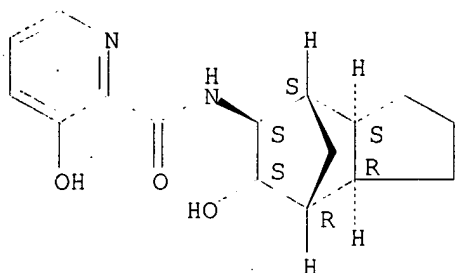


RN 321597-86-8 HCAPLUS

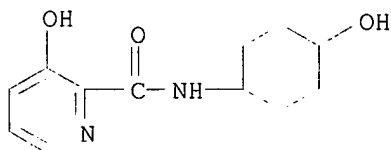
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(3aR,4R,5R,6R,7S,7aS)-octahydro-6-hydroxy-4,7-methano-1H-inden-5-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

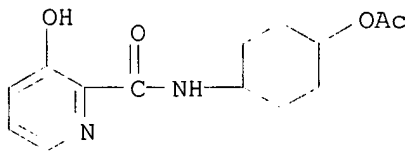




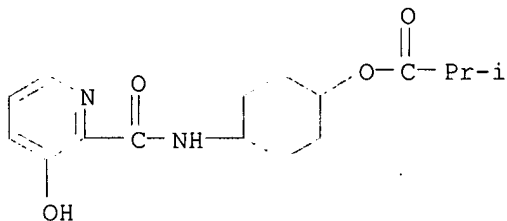
RN 321597-87-9 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-(4-hydroxycyclohexyl)- (9CI) (CA INDEX NAME)



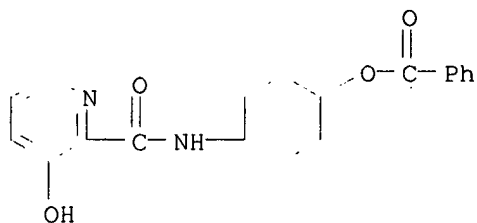
RN 321597-88-0 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(acetyloxy)cyclohexyl]-3-hydroxy- (9CI) (CA INDEX NAME)



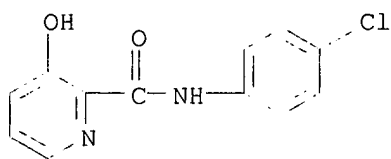
RN 321597-89-1 HCAPLUS  
CN Propanoic acid, 2-methyl-, 4-[[[(3-hydroxy-2-pyridinyl)carbonyl]amino]cyclohexyl ester (9CI) (CA INDEX NAME)



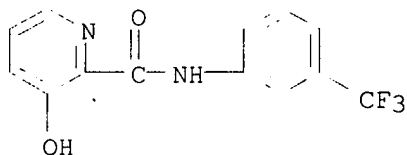
RN 321597-90-4 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(benzoyloxy)cyclohexyl]-3-hydroxy- (9CI) (CA INDEX NAME)



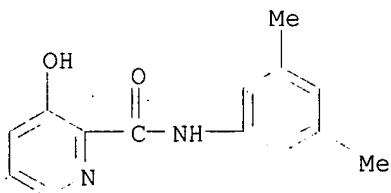
RN 321597-91-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(4-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



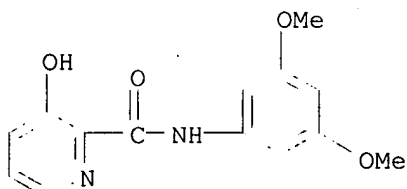
RN 321597-92-6 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



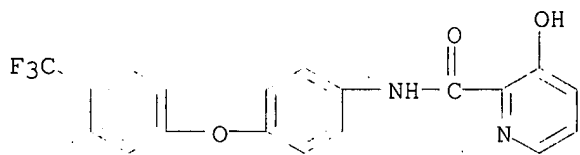
RN 321597-93-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(3,5-dimethylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



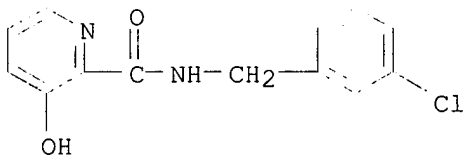
RN 321597-94-8 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(3,5-dimethoxyphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



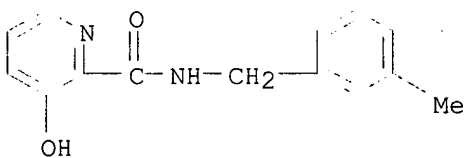
RN 321597-95-9 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



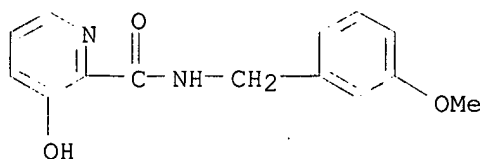
RN 321597-96-0 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[(3-chlorophenyl)methyl]-3-hydroxy- (9CI) (CA INDEX NAME)



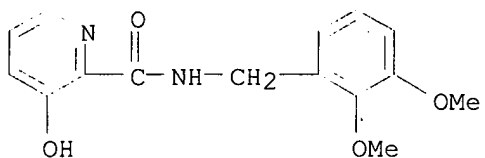
RN 321597-97-1 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(3-methylphenyl)methyl]- (9CI) (CA INDEX NAME)



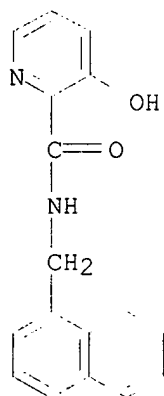
RN 321597-98-2 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(3-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



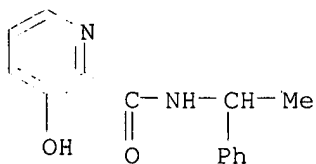
RN 321597-99-3 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[(2,3-dimethoxyphenyl)methyl]-3-hydroxy- (9CI)  
 (CA INDEX NAME)



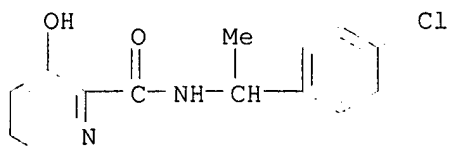
RN 321598-00-9 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-N-(1-naphthalenylmethyl)- (9CI) (CA  
 INDEX NAME)



RN 321598-01-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)



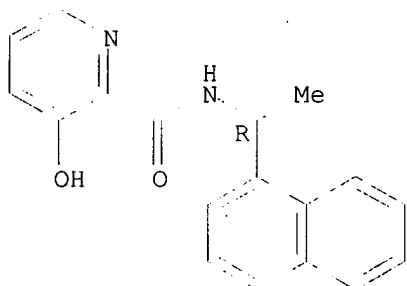
RN 321598-02-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[1-(4-chlorophenyl)ethyl]-3-hydroxy- (9CI) (CA  
 INDEX NAME)



RN 321598-03-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(1R)-1-(1-naphthalenyl)ethyl]- (9CI)  
(CA INDEX NAME)

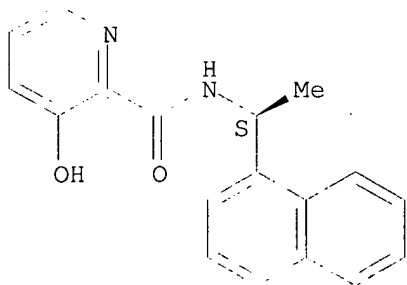
Absolute stereochemistry.



RN 321598-04-3 HCAPLUS

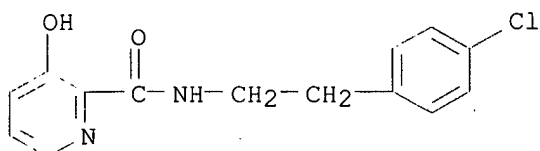
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(1S)-1-(1-naphthalenyl)ethyl]- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



RN 321598-05-4 HCAPLUS

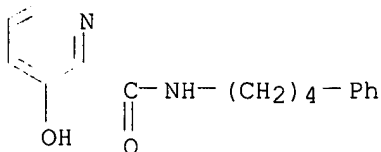
CN 2-Pyridinecarboxamide, N-[2-(4-chlorophenyl)ethyl]-3-hydroxy- (9CI) (CA  
INDEX NAME)



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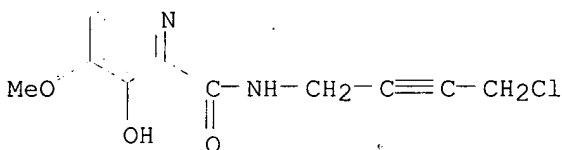
RN 321598-06-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-(4-phenylbutyl)- (9CI) (CA INDEX NAME)



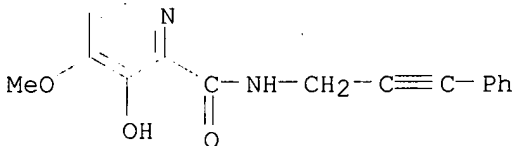
RN 321598-11-2 HCAPLUS

CN 2-Pyridinecarboxamide, N-(4-chloro-2-butyne)-3-hydroxy-4-methoxy- (9CI)  
(CA INDEX NAME)



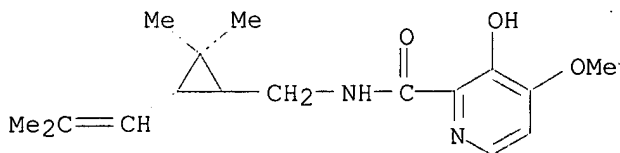
RN 321598-12-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3-phenyl-2-propynyl)- (9CI)  
(CA INDEX NAME)



RN 321598-13-4 HCAPLUS

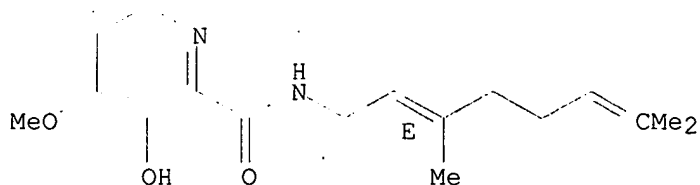
CN 2-Pyridinecarboxamide, N-[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]methyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-14-5 HCAPLUS

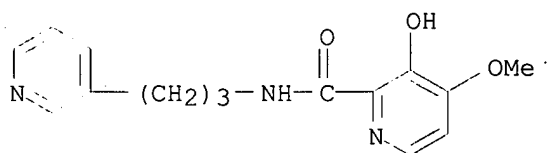
CN 2-Pyridinecarboxamide, N-[(2E)-3,7-dimethyl-2,6-octadienyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



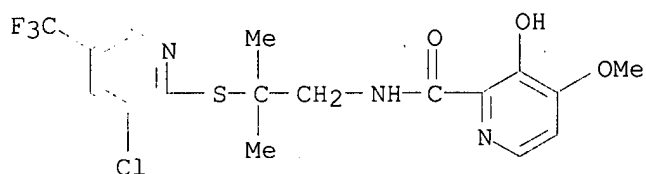
RN 321598-15-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(3-pyridinyl)propyl]- (9CI) (CA INDEX NAME)



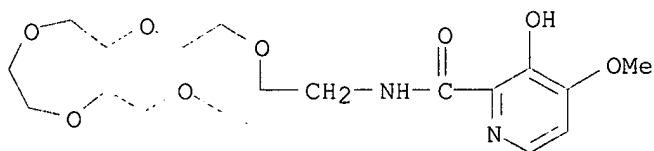
RN 321598-16-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-[2-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]thio]-2-methylpropyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



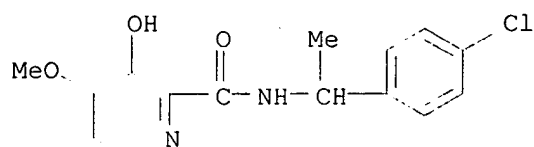
RN 321598-17-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1,4,7,10,13-pentaoxacyclopentadec-2-ylmethyl)- (9CI) (CA INDEX NAME)

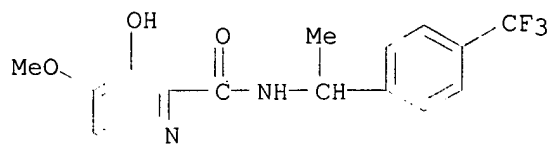


RN 321598-18-9 HCAPLUS

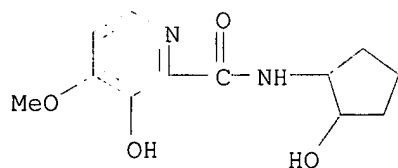
CN 2-Pyridinecarboxamide, N-[1-(4-chlorophenyl)ethyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



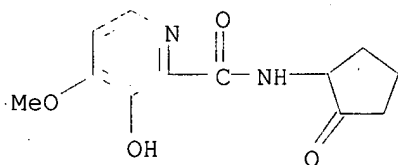
RN 321598-19-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[1-[4-(trifluoromethyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)



RN 321598-20-3 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-N-(2-hydroxycyclopentyl)-4-methoxy- (9CI) (CA INDEX NAME)

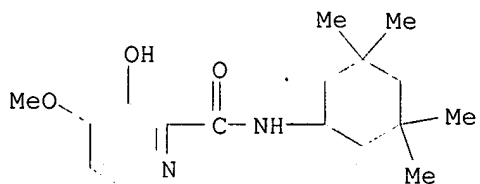


RN 321598-21-4 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2-oxocyclopentyl)- (9CI) (CA INDEX NAME)



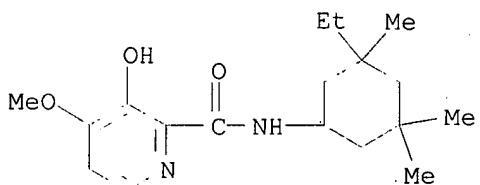
RN 321598-22-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3,3,5,5-tetramethylcyclohexyl)- (9CI) (CA INDEX NAME)





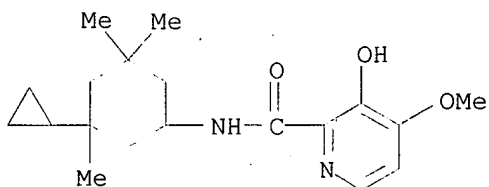
RN 321598-23-6 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-ethyl-3,5,5-trimethylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



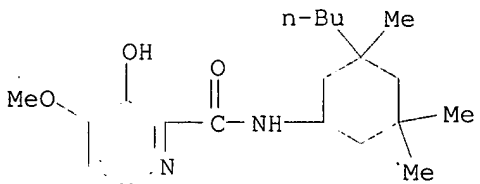
RN 321598-24-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-cyclopropyl-3,5,5-trimethylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



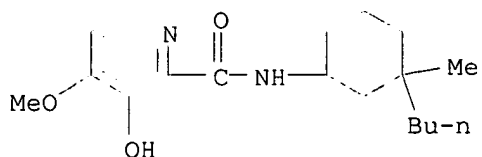
RN 321598-25-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-butyl-3,5,5-trimethylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



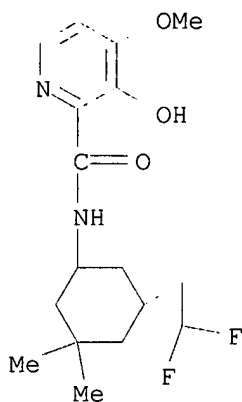
RN 321598-26-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-butyl-3-methylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



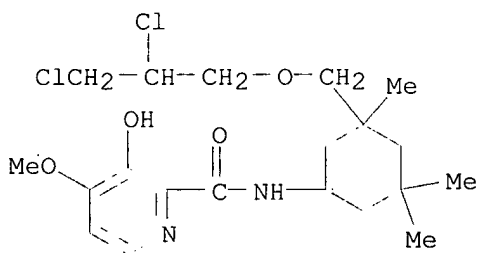
RN 321598-27-0 HCAPLUS

CN 2-Pyridinecarboxamide, N-(1,1-difluoro-7,7-dimethylspiro[2.5]oct-5-yl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



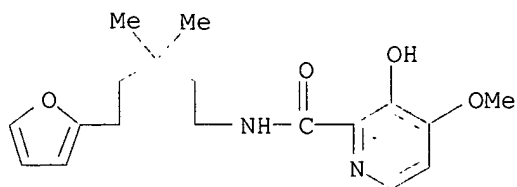
RN 321598-28-1 HCAPLUS

CN 2-Pyridinecarboxamide, N-[3-[(2,3-dichloropropoxy)methyl]-3,5,5-trimethylcyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-29-2 HCAPLUS

CN 2-Pyridinecarboxamide, N-[5-(2-furanyl)-3,3-dimethylcyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

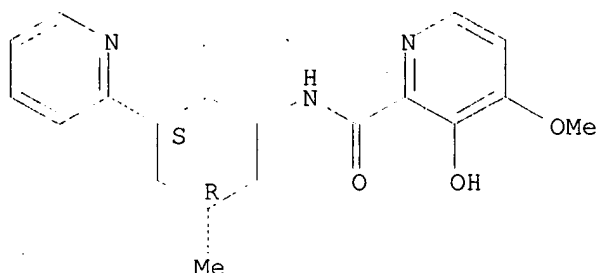


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RN 321598-30-5 HCAPLUS

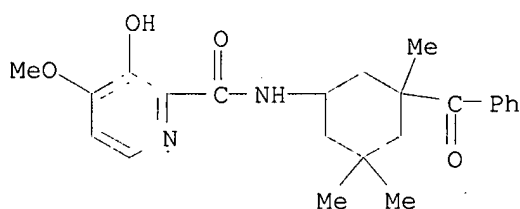
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(3R,5S)-3-methyl-5-(2-pyridinyl)cyclohexyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



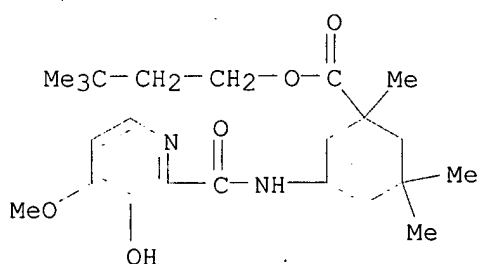
RN 321598-31-6 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-benzoyl-3,5,5-trimethylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-32-7 HCAPLUS

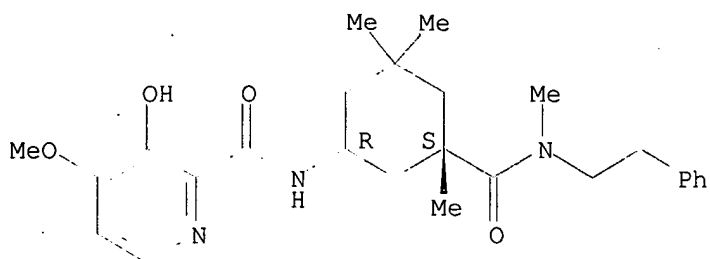
CN Cyclohexanecarboxylic acid, 5-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-1,3,3-trimethyl-, 3,3-dimethylbutyl ester (9CI) (CA INDEX NAME)



RN 321598-33-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,5S)-3,3,5-trimethyl-5-[[methyl(2-phenylethyl)amino]carbonyl]cyclohexyl]-, rel- (9CI) (CA INDEX NAME)

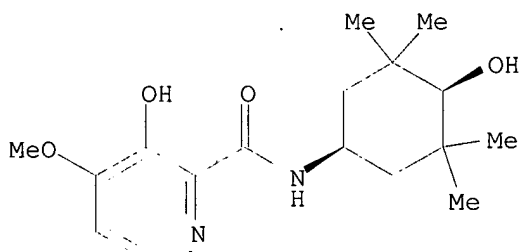
Relative stereochemistry.



RN 321598-34-9 HCAPLUS

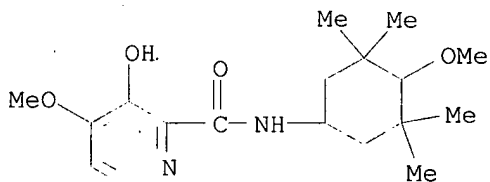
CN 2-Pyridinecarboxamide, 3-hydroxy-N-(cis-4-hydroxy-3,3,5,5-tetramethylcyclohexyl)-4-methoxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.



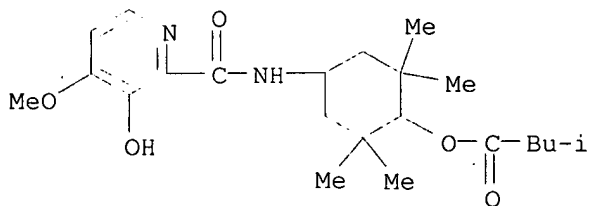
RN 321598-35-0 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(4-methoxy-3,3,5,5-tetramethylcyclohexyl)- (9CI) (CA INDEX NAME)



RN 321598-37-2 HCAPLUS

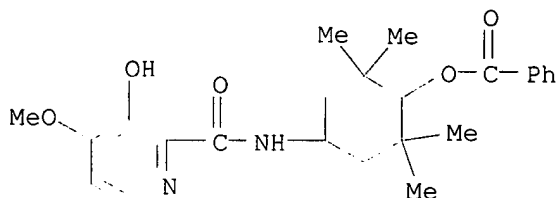
CN Butanoic acid, 3-methyl-, 4-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-2,2,6,6-tetramethylcyclohexyl ester (9CI) (CA INDEX NAME)



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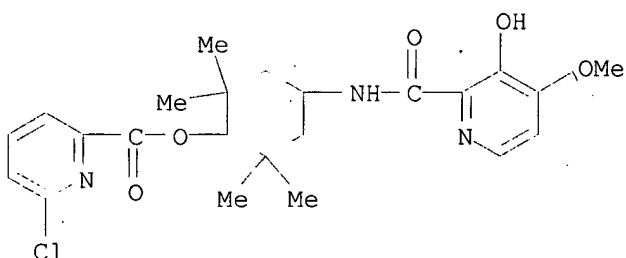
RN 321598-38-3 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-(benzoyloxy)-3,3,5,5-tetramethylcyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-39-4 HCAPLUS

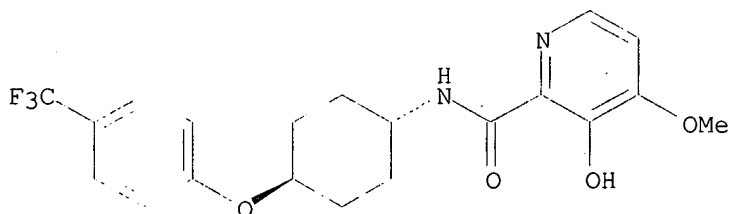
CN 2-Pyridinecarboxylic acid, 6-chloro-, 4-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-2,2,6,6-tetramethylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 321598-40-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[trans-4-[4-(trifluoromethyl)phenoxy]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

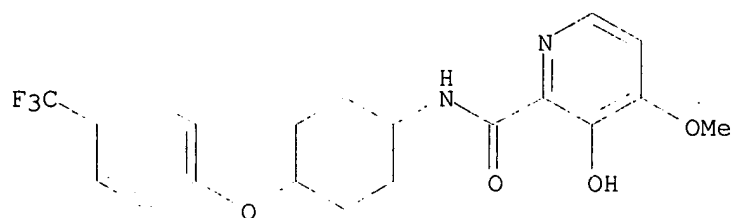


RN 321598-41-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[cis-4-[4-(trifluoromethyl)phenoxy]cyclohexyl]- (9CI) (CA INDEX NAME)

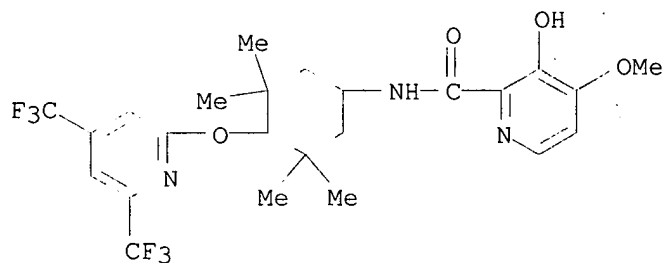
Relative stereochemistry.

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RN 321598-42-9 HCAPLUS

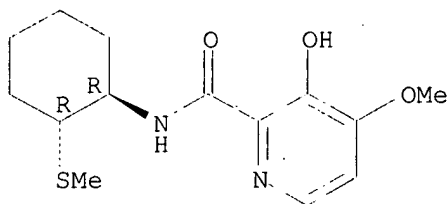
CN 2-Pyridinecarboxamide, N-[4-[[4,6-bis(trifluoromethyl)-2-pyridinyl]oxy]-3,3,5,5-tetramethylcyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-43-0 HCAPLUS

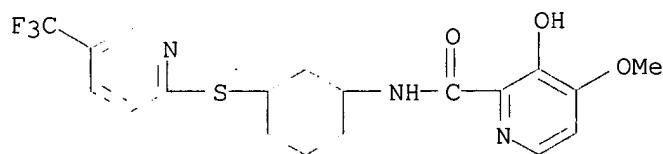
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2R)-2-(methylthio)cyclohexyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



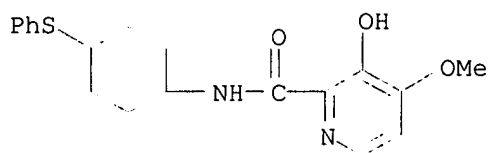
RN 321598-44-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[[5-(trifluoromethyl)-2-pyridinyl]thio]cyclohexyl]- (9CI) (CA INDEX NAME)

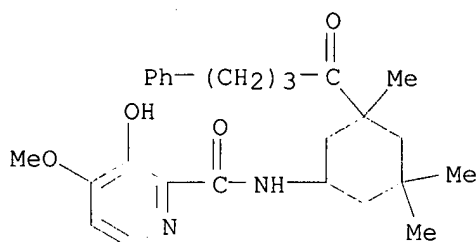


RN 321598-45-2 HCAPLUS

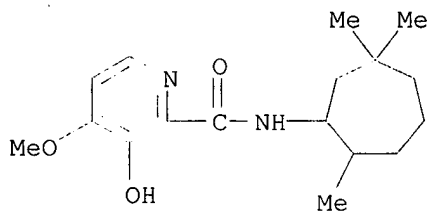
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(phenylthio)cyclohexyl]- (9CI) (CA INDEX NAME)



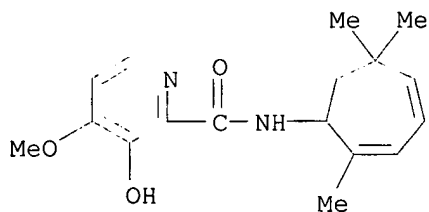
RN 321598-46-3 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3,3,5-trimethyl-5-(1-oxo-4-phenylbutyl)cyclohexyl]- (9CI) (CA INDEX NAME)



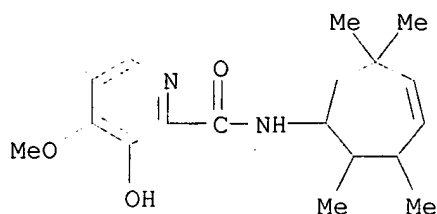
RN 321598-47-4 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2,6,6-trimethylcycloheptyl)- (9CI) (CA INDEX NAME)



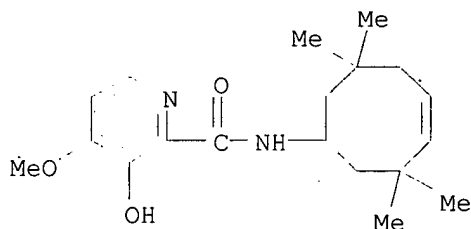
RN 321598-48-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2,6,6-trimethyl-2,4-cycloheptadien-1-yl)- (9CI) (CA INDEX NAME)



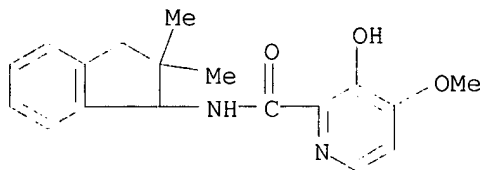
RN 321598-49-6 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2,3,6,6-tetramethyl-4-cyclohepten-1-yl)- (9CI) (CA INDEX NAME)



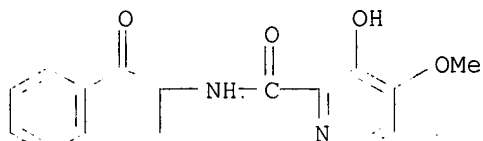
RN 321598-50-9 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3,3,7,7-tetramethyl-4-cycloocten-1-yl)- (9CI) (CA INDEX NAME)



RN 321598-51-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(2,3-dihydro-2,2-dimethyl-1H-inden-1-yl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-52-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1,2,3,4-tetrahydro-1-oxo-2-naphthalenyl)- (9CI) (CA INDEX NAME)

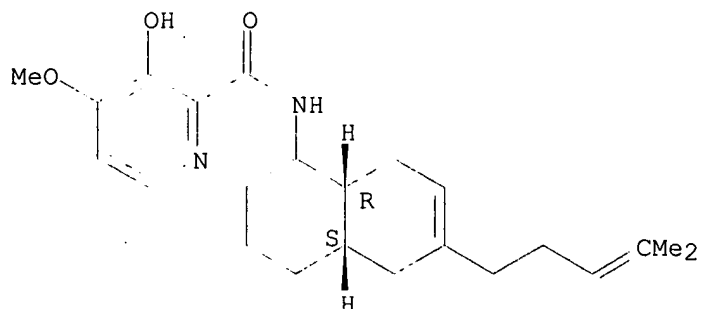


RN 321598-53-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(4aR,8aS)-1,2,3,4,4a,5,8,8a-octahydro-6-(4-methyl-3-pentenyl)-1-naphthalenyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



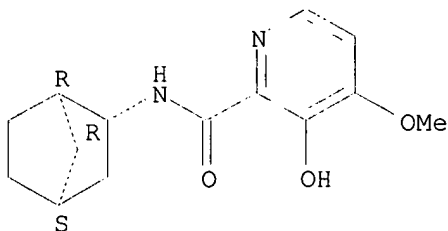
Robinson 09/830,923



RN 321598-54-3 HCAPLUS

CN 2-Pyridinecarboxamide, N-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

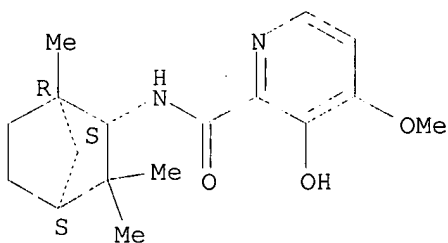
Relative stereochemistry.



RN 321598-55-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4S)-1,3,3-trimethylbicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

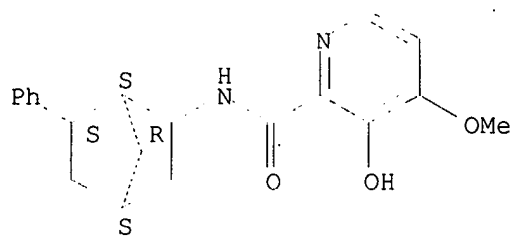
Relative stereochemistry.



RN 321598-56-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4R,6R)-6-phenylbicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

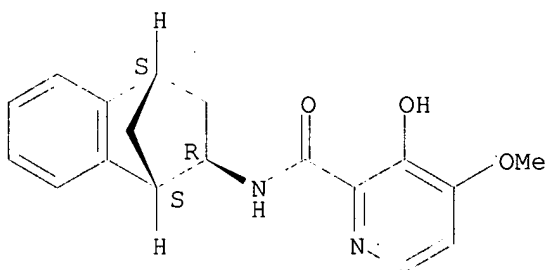
Relative stereochemistry.



RN 321598-57-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4R)-1,2,3,4-tetrahydro-1,4-methanonaphthalen-2-yl]-, rel- (9CI) (CA INDEX NAME)

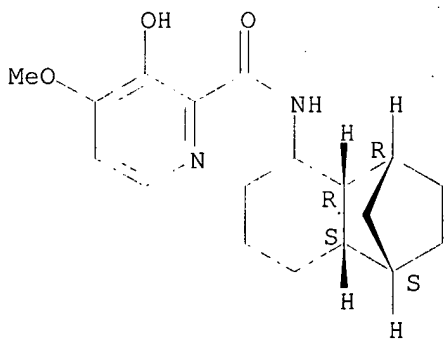
Relative stereochemistry.



RN 321598-58-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(1R,4S,4aS,8aR)-decahydro-1,4-methanonaphthalen-5-yl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

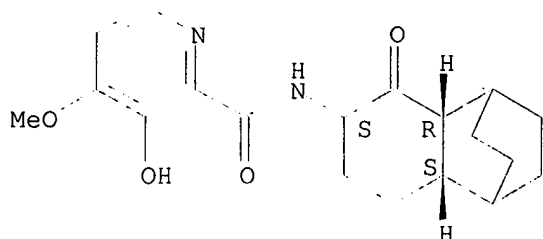


RN 321598-59-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(4aR,6S,8aS)-decahydro-5-oxo-1,4-ethanonaphthalen-6-yl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

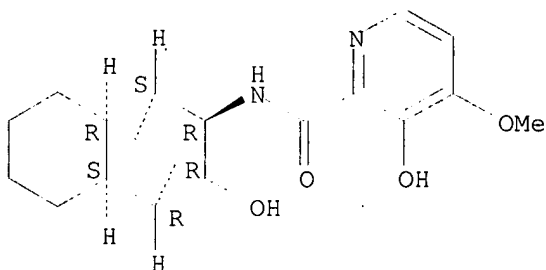
Robinson 09/830,923



RN 321598-60-1 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(1R, 2S, 3S, 4S, 4aR, 8aS)-decahydro-3-hydroxy-1, 4-ethanonaphthalen-2-yl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

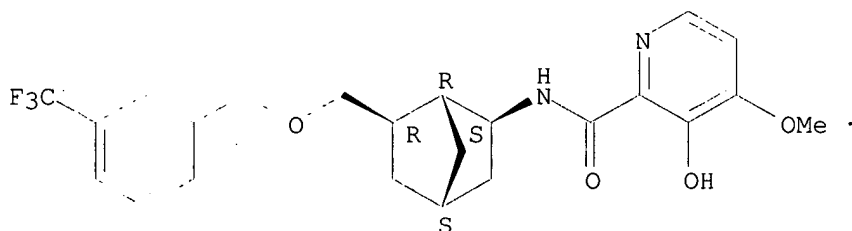
Relative stereochemistry.



RN 321598-61-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R, 2S, 4S, 6R)-6-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

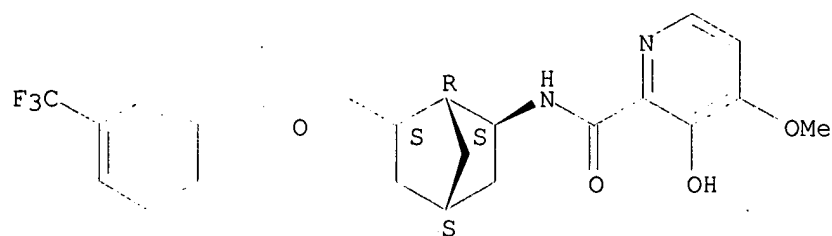
Relative stereochemistry.



RN 321598-62-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R, 2S, 4S, 6S)-6-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

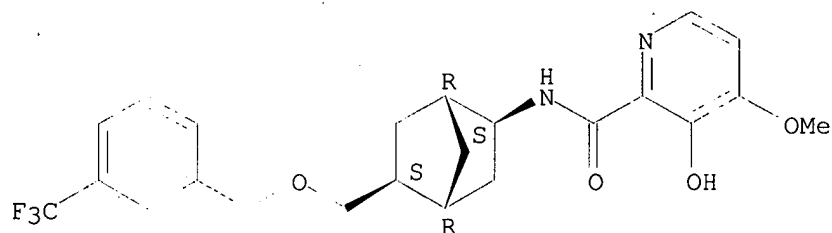
Relative stereochemistry.



RN 321598-63-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4R,5S)-5-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

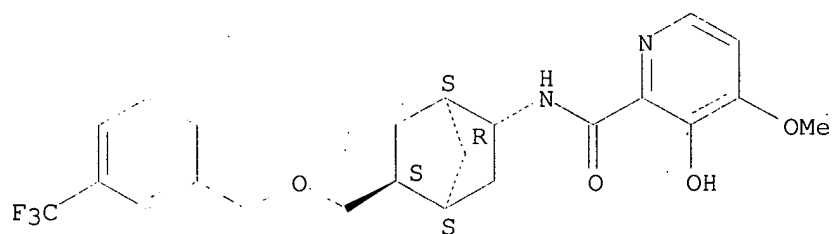
Relative stereochemistry.



RN 321598-64-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4R,5R)-5-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

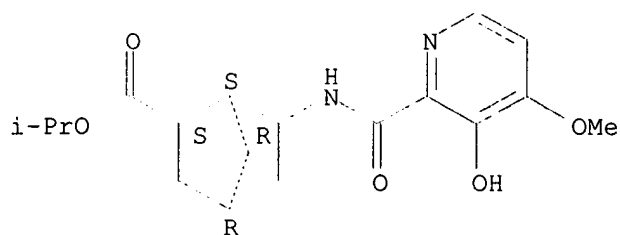
Relative stereochemistry.



RN 321598-65-6 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 6-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 1-methylethyl ester, (1R,2R,4S,6S)-rel- (9CI) (CA INDEX NAME)

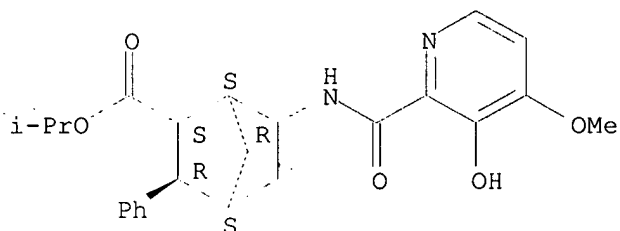
Relative stereochemistry.



RN 321598-66-7 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 6-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-3-phenyl-, 1-methylethyl ester, (1R,2R,3S,4R,6S)-rel- (9CI) (CA INDEX NAME)

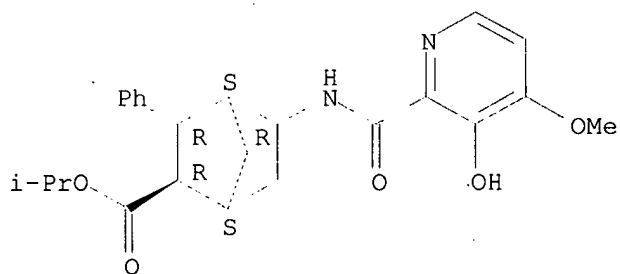
Relative stereochemistry.



RN 321598-67-8 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 5-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-3-phenyl-, 1-methylethyl ester, (1R,2S,3S,4R,5S)-rel- (9CI) (CA INDEX NAME)

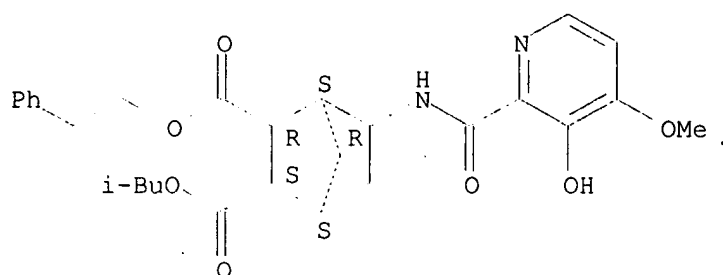
Relative stereochemistry.



RN 321598-68-9 HCAPLUS

CN Bicyclo[2.2.1]heptane-2,3-dicarboxylic acid, 5-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 2-(2-methylpropyl) 3-(2-phenylethyl) ester, (1R,2R,3S,4R,5S)-rel- (9CI) (CA INDEX NAME)

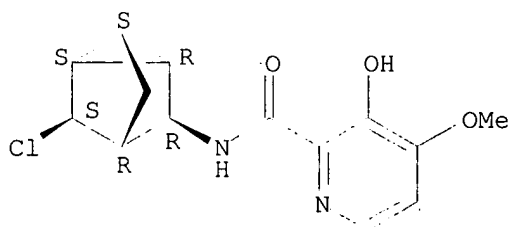
Relative stereochemistry.



RN 321598-71-4 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(1R,2S,3S,4S,5R,6R)-5-chlorotricyclo[2.2.1.0<sup>2,6</sup>]hept-3-yl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

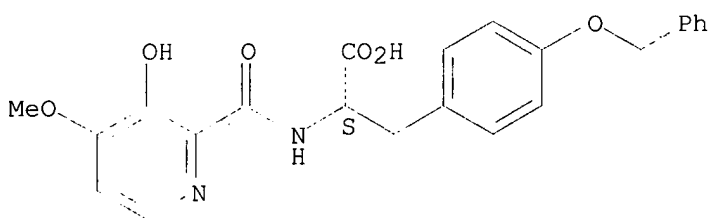
Relative stereochemistry.



RN 321599-05-7 HCAPLUS

CN L-Tyrosine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

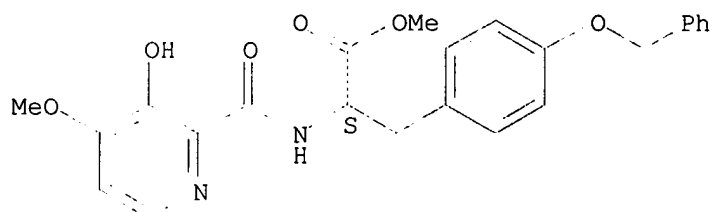


RN 321599-06-8 HCAPLUS

CN L-Tyrosine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

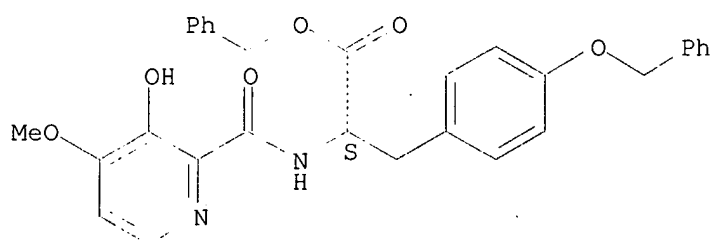
Robinson 09/830,923



RN 321599-07-9 HCAPLUS

CN L-Tyrosine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)

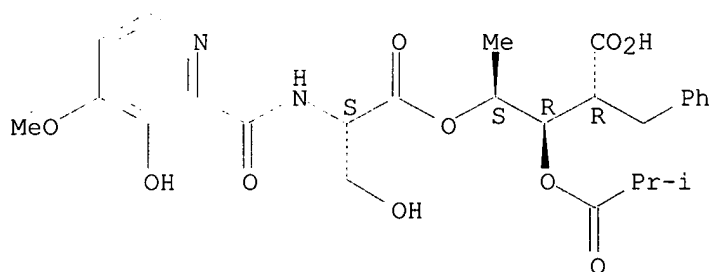
Absolute stereochemistry.



RN 321599-08-0 HCAPLUS

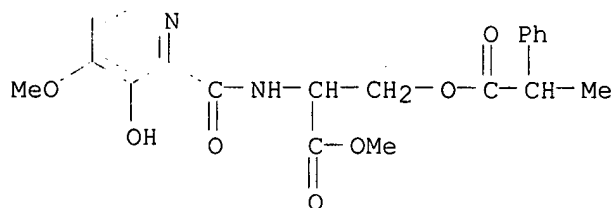
CN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, 3-(2-methylpropanoate), 4-ester with N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-L-serine (9CI) (CA INDEX NAME)

Absolute stereochemistry.



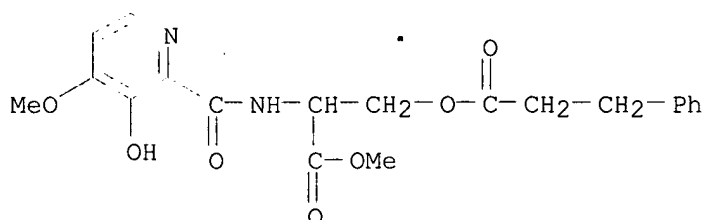
RN 321599-10-4 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-(.alpha.-methylbenzeneacetate) (9CI) (CA INDEX NAME)



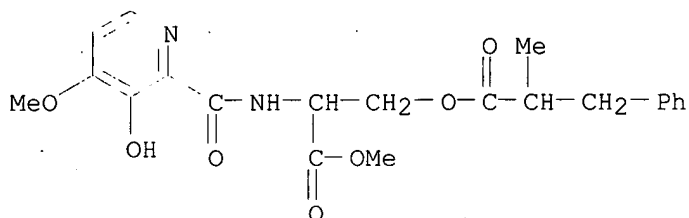
RN 321599-11-5 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-benzenepropanoate (9CI) (CA INDEX NAME)



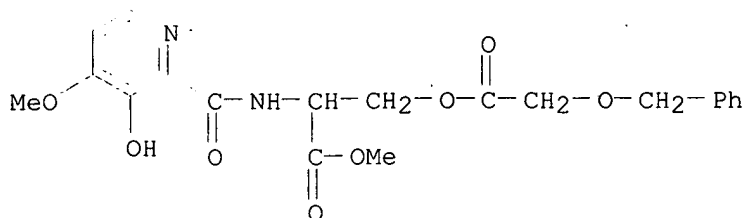
RN 321599-12-6 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-(.alpha.-methylbenzenepropanoate) (9CI) (CA INDEX NAME)



RN 321599-13-7 HCAPLUS

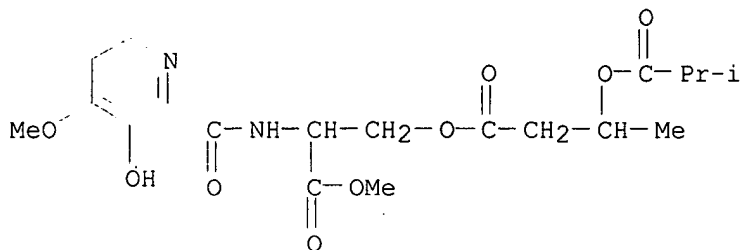
CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[(phenylmethoxy)acetate] (9CI) (CA INDEX NAME)



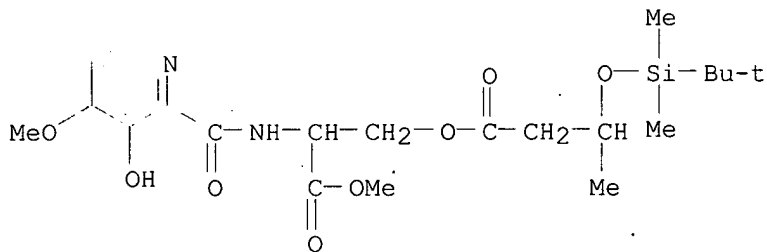
RN 321599-14-8 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[3-(2-methyl-1-oxopropoxy)butanoate] (9CI) (CA INDEX NAME)

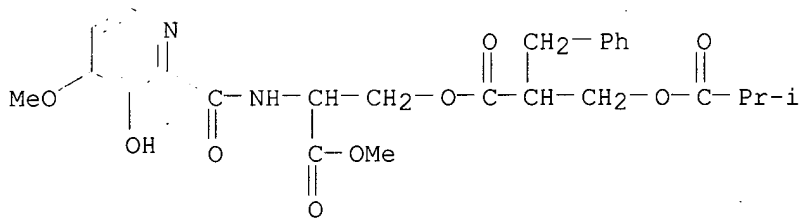




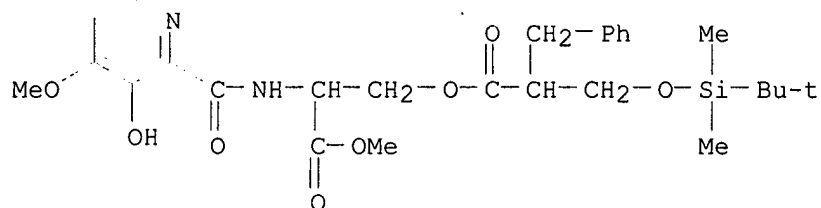
RN 321599-15-9 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester,  
 3-[3-[[ (1,1-dimethylethyl)dimethylsilyl]oxy]butanoate] (9CI) (CA INDEX  
 NAME)



RN 321599-16-0 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester,  
 3-[.alpha.-[(2-methyl-1-oxopropoxy)methyl]benzenepropanoate] (9CI) (CA  
 INDEX NAME)

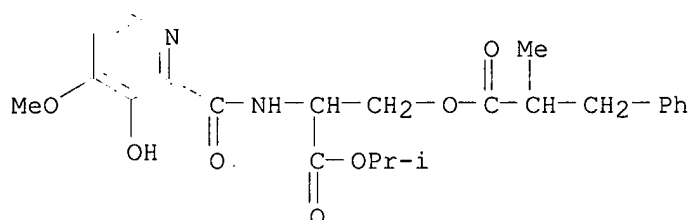


RN 321599-17-1 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester,  
 3-[.alpha.-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]benzenepropanoat  
 e] (9CI) (CA INDEX NAME)



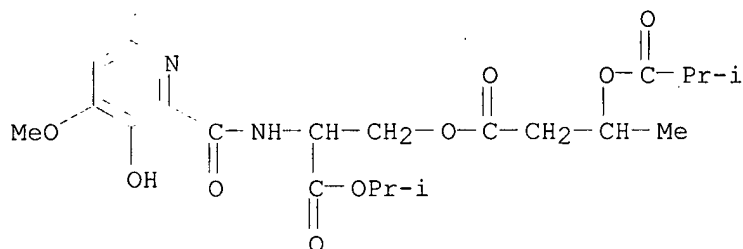
RN 321599-18-2 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-(.alpha.-methylbenzenepropanoate) (9CI) (CA INDEX NAME)



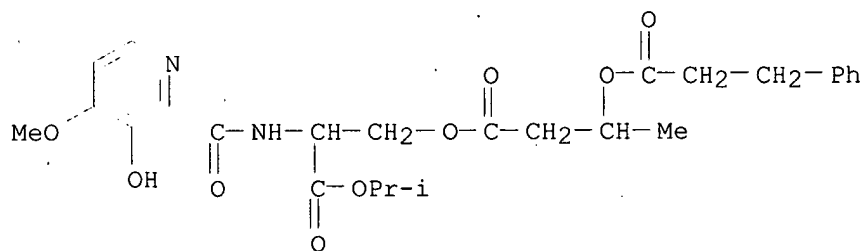
RN 321599-19-3 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[3-(2-methyl-1-oxopropoxy)butanoate] (9CI) (CA INDEX NAME)



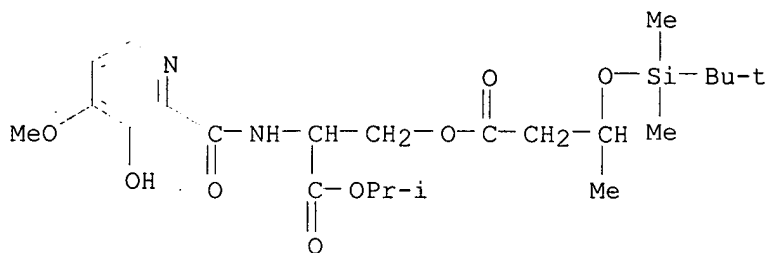
RN 321599-20-6 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[3-(1-oxo-3-phenylpropoxy)butanoate] (9CI) (CA INDEX NAME)



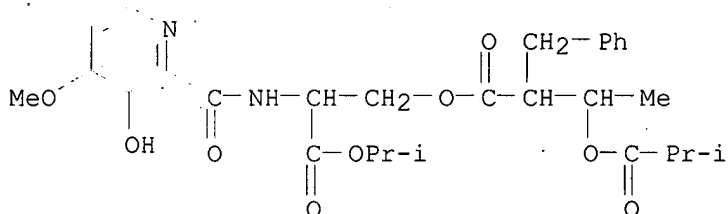
RN 321599-21-7 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]butanoate] (9CI) (CA INDEX NAME)



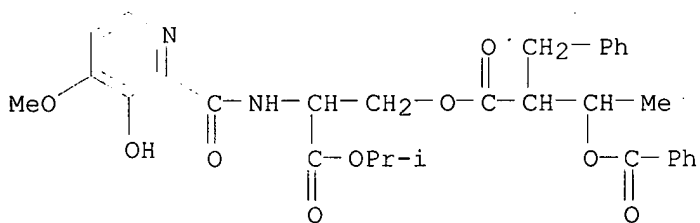
RN 321599-22-8 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[.alpha.-[1-(2-methyl-1-oxopropoxy)ethyl]benzenepropanoate] (9CI) (CA INDEX NAME)



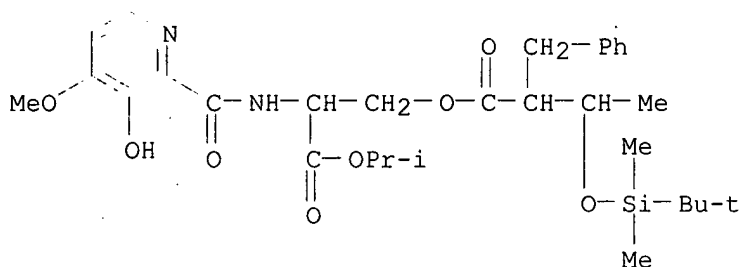
RN 321599-23-9 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[.alpha.-[1-(benzoyloxy)ethyl]benzenepropanoate] (9CI) (CA INDEX NAME)



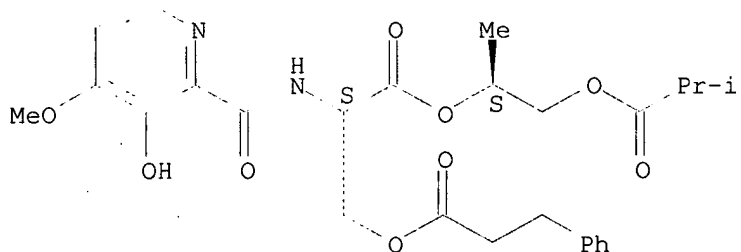
RN 321599-24-0 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[.alpha.-[1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]benzenepropanoate] (9CI) (CA INDEX NAME)



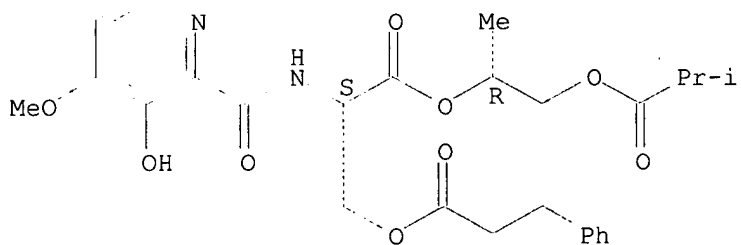
RN 321599-25-1 HCAPLUS  
 CN D-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-,  
 (1R)-1-methyl-2-(2-methyl-1-oxopropoxy)ethyl ester, 3-benzenepropanoate,  
 rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



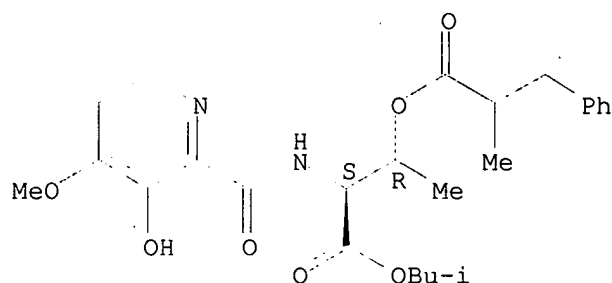
RN 321599-26-2 HCAPLUS  
 CN D-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-,  
 (1S)-1-methyl-2-(2-methyl-1-oxopropoxy)ethyl ester, 3-benzenepropanoate,  
 rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



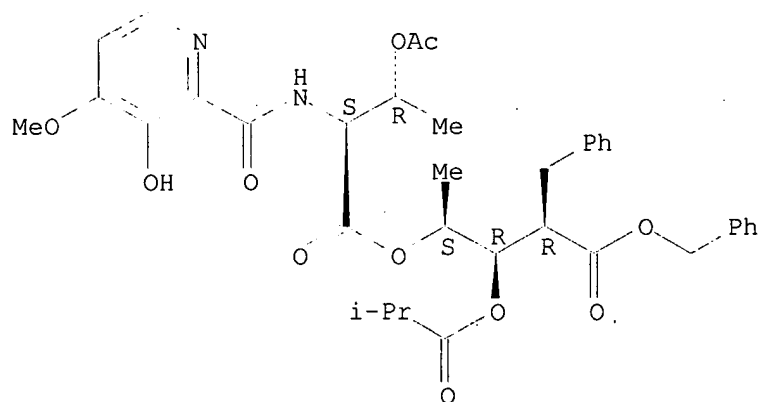
RN 321599-27-3 HCAPLUS  
 CN L-Threonine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-,  
 2-methylpropyl ester, 3-(.alpha.-methylbenzenepropanoate) (9CI) (CA INDEX  
 NAME)

Absolute stereochemistry.

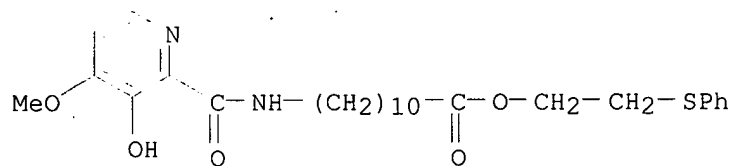


RN 321599-28-4 HCAPLUS  
 CN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, phenylmethyl ester, 3-(2-methylpropanoate), 4-ester with N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-L-threonine acetate (ester) (9CI) (CA INDEX NAME)

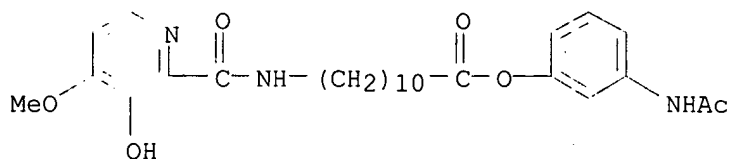
Absolute stereochemistry.



RN 321599-29-5 HCAPLUS  
 CN Undecanoic acid, 11-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 2-(phenylthio)ethyl ester (9CI) (CA INDEX NAME)

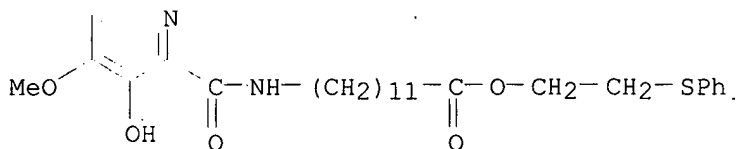


RN 321599-30-8 HCAPLUS  
 CN Undecanoic acid, 11-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-(acetylamino)phenyl ester (9CI) (CA INDEX NAME)



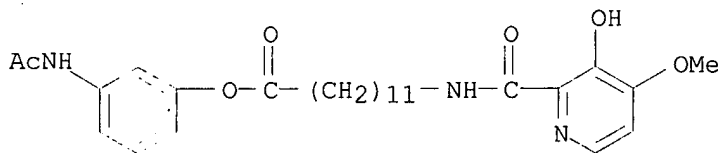
RN 321599-31-9 HCAPLUS

CN Dodecanoic acid, 12-[[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-, 2-(phenylthio)ethyl ester (9CI) (CA INDEX NAME)



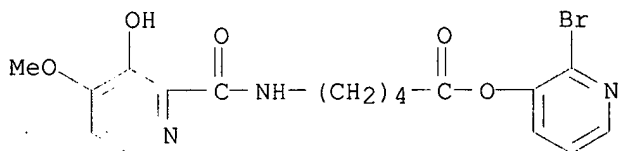
RN 321599-32-0 HCAPLUS

CN Dodecanoic acid, 12-[[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-, 3-(acetylthio)ethyl ester (9CI) (CA INDEX NAME)



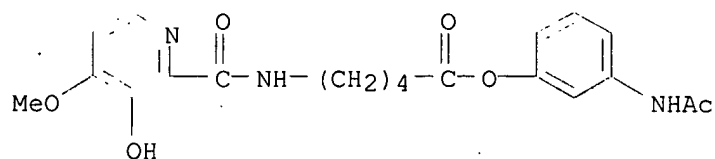
RN 321599-33-1 HCAPLUS

CN Pentanoic acid, 5-[[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-, 2-bromo-3-pyridinyl ester (9CI) (CA INDEX NAME)



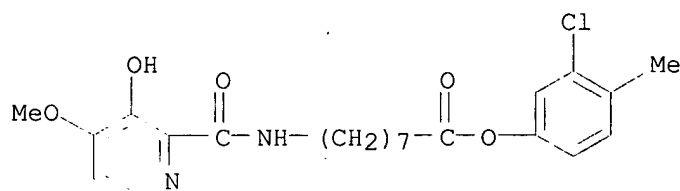
RN 321599-34-2 HCAPLUS

CN Pentanoic acid, 5-[[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-, 3-(acetylthio)ethyl ester (9CI) (CA INDEX NAME)



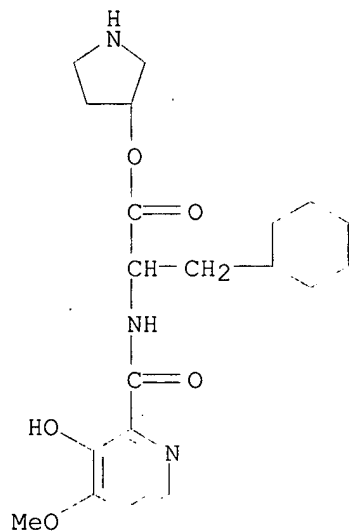
RN 321599-35-3 HCAPLUS

CN Octanoic acid, 8-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-chloro-4-methylphenyl ester (9CI) (CA INDEX NAME)



RN 321599-36-4 HCAPLUS

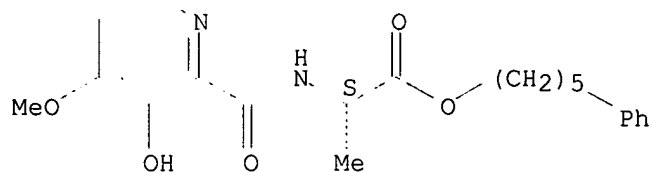
CN Cyclohexanepropanoic acid, .alpha.-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-pyrrolidinyl ester (9CI) (CA INDEX NAME)



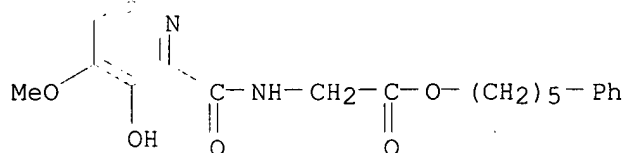
RN 321599-37-5 HCAPLUS

CN L-Alanine, N-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 5-phenylpentyl ester (9CI) (CA INDEX NAME)

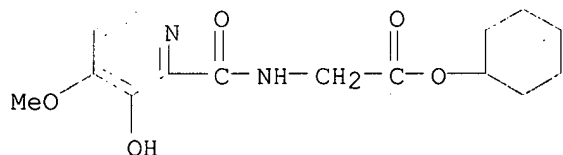
Absolute stereochemistry.



RN 321599-38-6 HCAPLUS  
 CN Glycine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 5-phenylpentyl ester (9CI) (CA INDEX NAME)

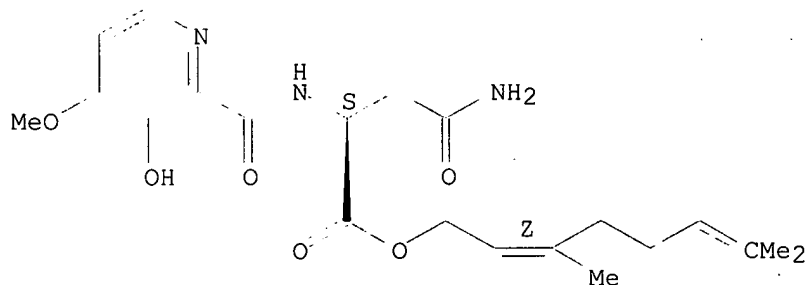


RN 321599-39-7 HCAPLUS  
 CN Glycine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, cyclohexyl ester (9CI) (CA INDEX NAME)



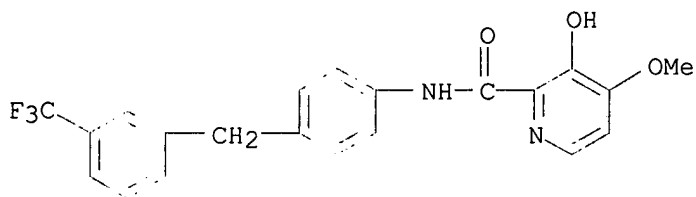
RN 321599-40-0 HCAPLUS  
 CN L-Asparagine, N2-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, (2Z)-3,7-dimethyl-2,6-octadienyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry as shown.



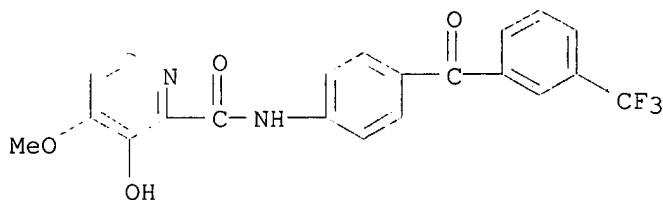
RN 321599-67-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]methyl]phenyl]- (9CI) (CA INDEX NAME)





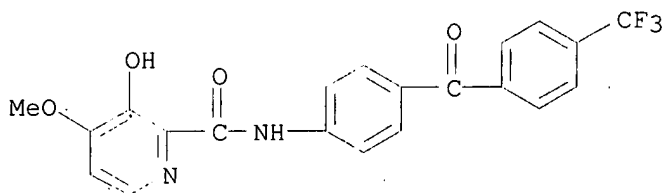
RN 321599-68-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[3-(trifluoromethyl)benzoyl]phenyl]- (9CI) (CA INDEX NAME)



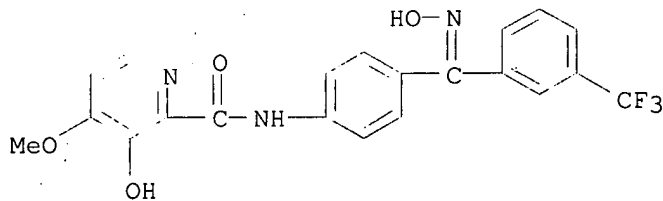
RN 321599-69-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[4-(trifluoromethyl)benzoyl]phenyl]- (9CI) (CA INDEX NAME)



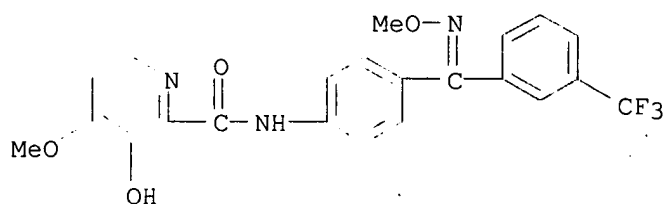
RN 321599-70-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-[4-[(hydroxyimino)[3-(trifluoromethyl)phenyl]methyl]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)



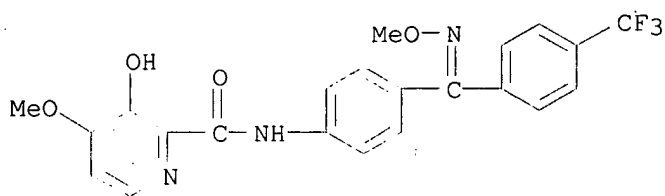
RN 321599-71-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(methoxyimino)[3-(trifluoromethyl)phenyl]methyl]phenyl]- (9CI) (CA INDEX NAME)



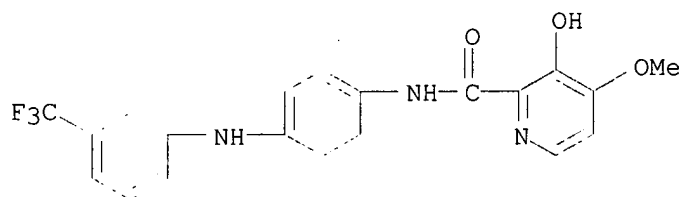
RN 321599-72-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(methoxyimino)[4-(trifluoromethyl)phenyl]methyl]phenyl]- (9CI) (CA INDEX NAME)



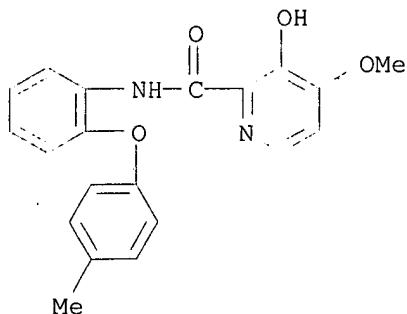
RN 321599-73-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)



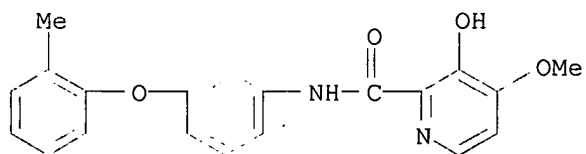
RN 321599-74-0 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[2-(4-methylphenoxy)phenyl]- (9CI) (CA INDEX NAME)

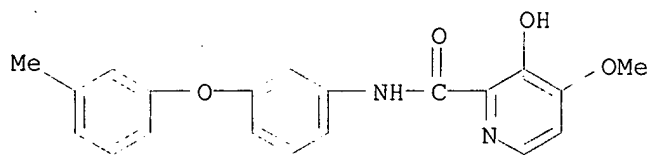


RN 321599-75-1 HCAPLUS

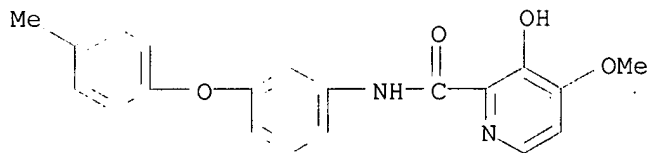
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(2-methylphenoxy)phenyl]- (9CI) (CA INDEX NAME)



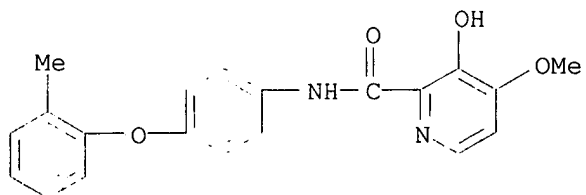
RN 321599-76-2 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(3-methylphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



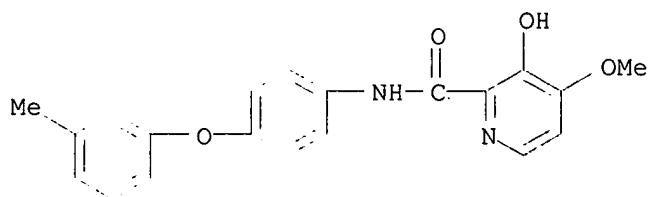
RN 321599-77-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(4-methylphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



RN 321599-78-4 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(2-methylphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)

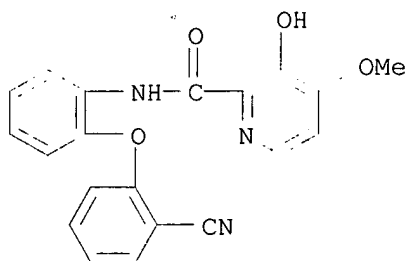


RN 321599-79-5 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(3-methylphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



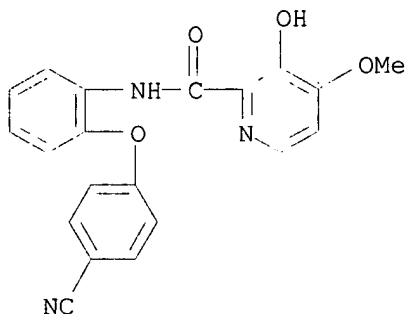
RN 321599-80-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-[2-(2-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



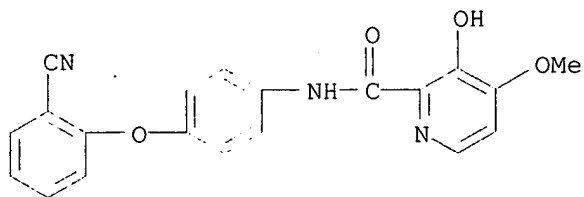
RN 321599-81-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-[2-(4-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



RN 321599-82-0 HCAPLUS

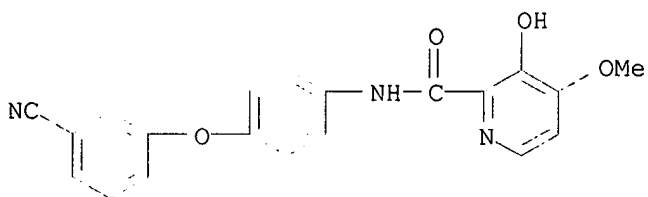
CN 2-Pyridinecarboxamide, N-[4-(2-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



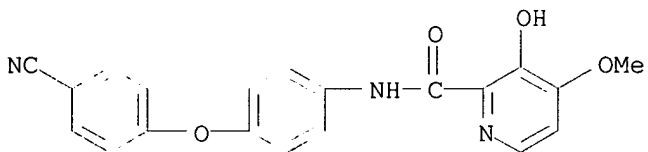
RN 321599-83-1 HCAPLUS

Robinson 09/830,923

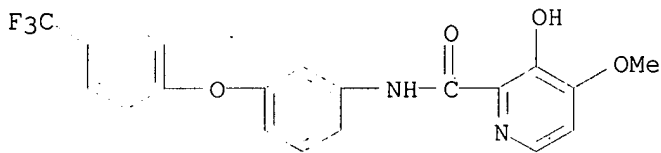
CN 2-Pyridinecarboxamide, N-[4-(3-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



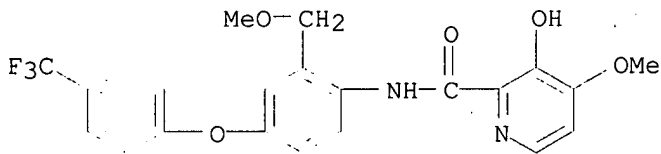
RN 321599-84-2 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(4-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



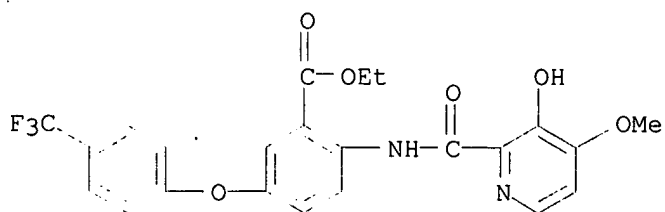
RN 321599-85-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 321599-86-4 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[2-(methoxymethyl)-4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)

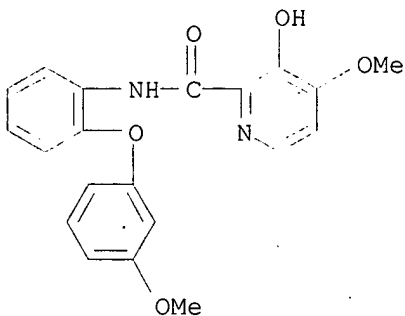


RN 321599-87-5 HCAPLUS  
CN Benzoic acid, 2-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-5-[4-(trifluoromethyl)phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)



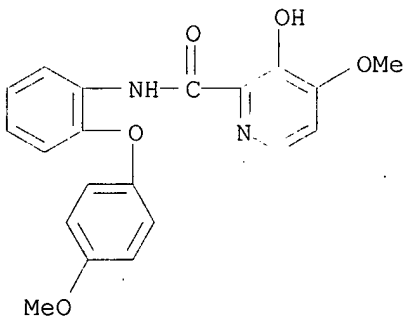
RN 321599-88-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[2-(3-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



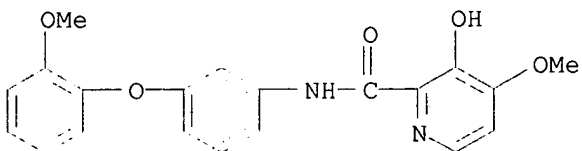
RN 321599-89-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[2-(4-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)

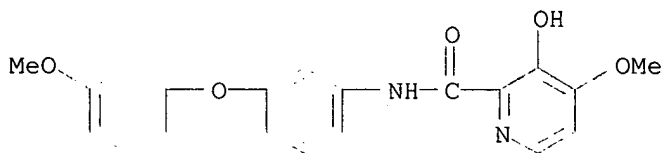


RN 321599-90-0 HCAPLUS

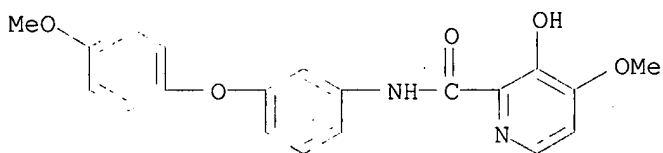
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(2-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



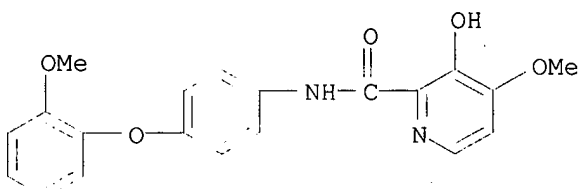
RN 321599-91-1 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(3-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



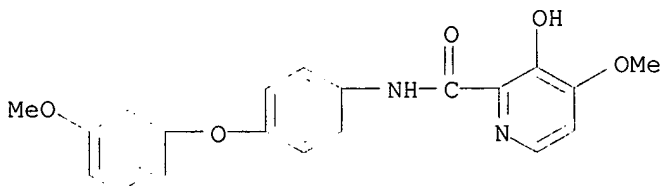
RN 321599-92-2 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(4-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



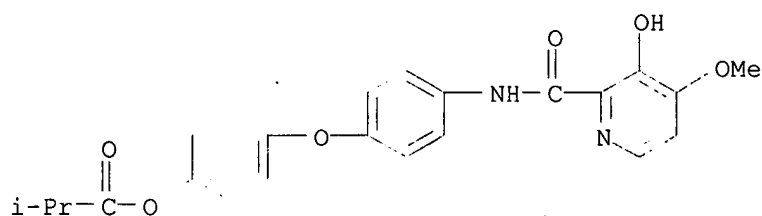
RN 321599-93-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(2-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



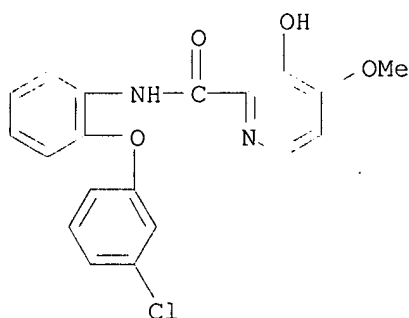
RN 321599-94-4 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(3-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



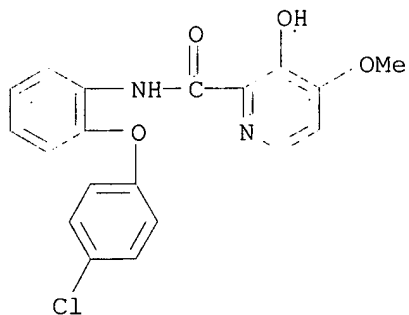
RN 321599-95-5 HCAPLUS  
CN Propanoic acid, 2-methyl-, 4-[4-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]phenoxy]phenyl ester (9CI) (CA INDEX NAME)



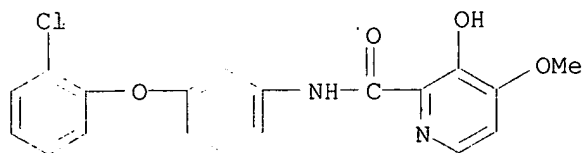
RN 321599-96-6 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[2-(3-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
 (9CI) (CA INDEX NAME)



RN 321599-97-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[2-(4-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
 (9CI) (CA INDEX NAME)

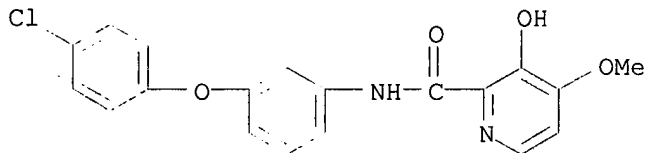


RN 321599-98-8 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[3-(2-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
 (9CI) (CA INDEX NAME)

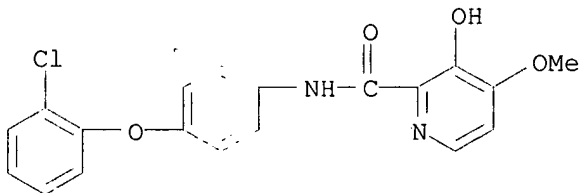




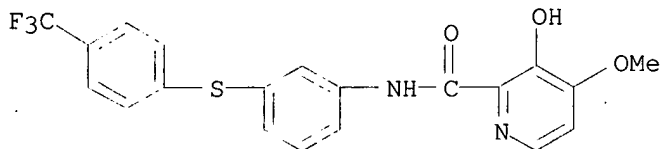
RN 321599-99-9 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[3-(4-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



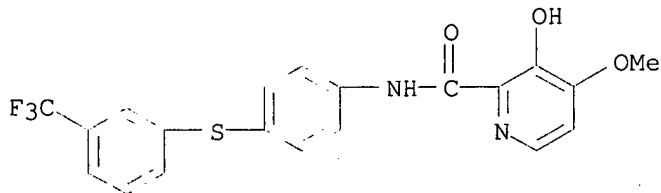
RN 321600-00-4 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(2-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



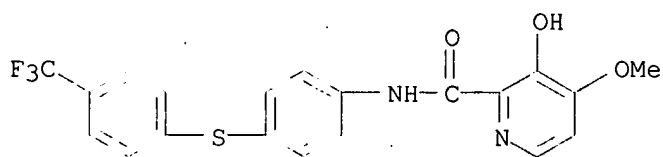
RN 321600-01-5 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[[4-(trifluoromethyl)phenyl]thio]phenyl]- (9CI) (CA INDEX NAME)



RN 321600-02-6 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]thio]phenyl]- (9CI) (CA INDEX NAME)

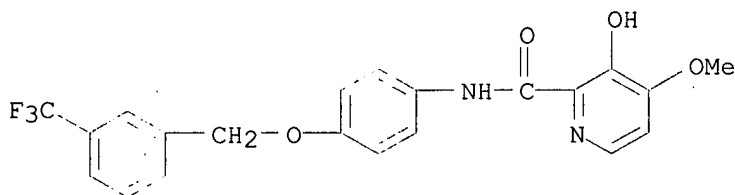


RN 321600-03-7 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[4-(trifluoromethyl)phenyl]thio]phenyl]- (9CI) (CA INDEX NAME)



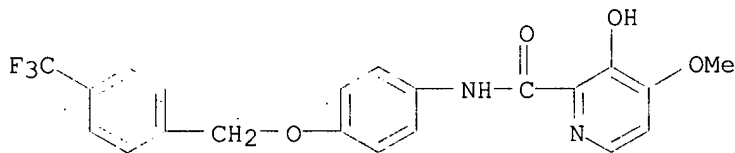
RN 321600-04-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]methoxy]phenyl]- (9CI) (CA INDEX NAME)



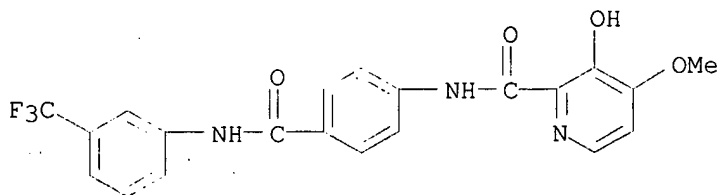
RN 321600-05-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[4-(trifluoromethyl)phenyl]methoxy]phenyl]- (9CI) (CA INDEX NAME)



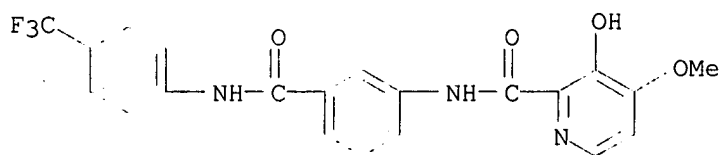
RN 321600-06-0 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]phenyl]- (9CI) (CA INDEX NAME)



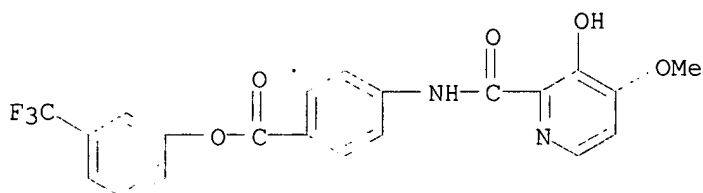
RN 321600-07-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]phenyl]- (9CI) (CA INDEX NAME)



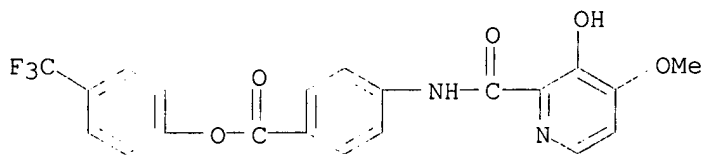
RN 321600-08-2 HCAPLUS

CN Benzoic acid, 4-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-(trifluoromethyl)phenyl ester (9CI) (CA INDEX NAME)



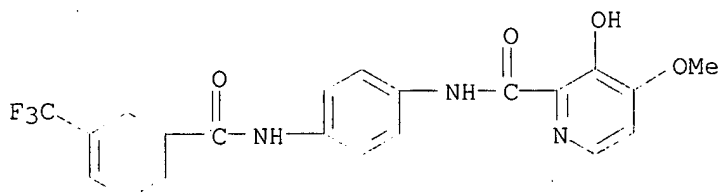
RN 321600-09-3 HCAPLUS

CN Benzoic acid, 4-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 4-(trifluoromethyl)phenyl ester (9CI) (CA INDEX NAME)



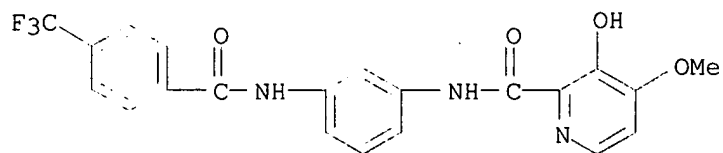
RN 321600-10-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[[3-(trifluoromethyl)benzoyl]amino]phenyl]- (9CI) (CA INDEX NAME)



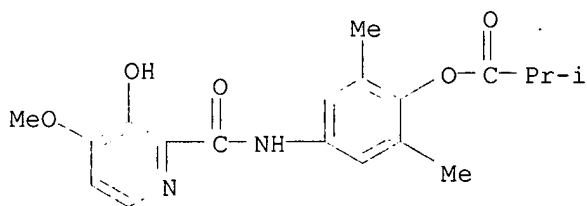
RN 321600-11-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[[[4-(trifluoromethyl)benzoyl]amino]phenyl]- (9CI) (CA INDEX NAME)



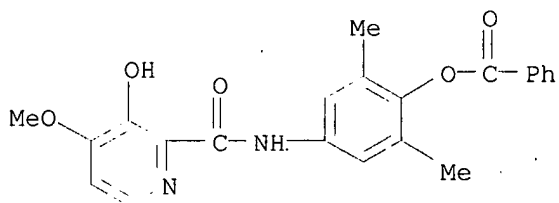
RN 321600-12-8 HCAPLUS

CN Propanoic acid, 2-methyl-, 4-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-2,6-dimethylphenyl ester (9CI) (CA INDEX NAME)



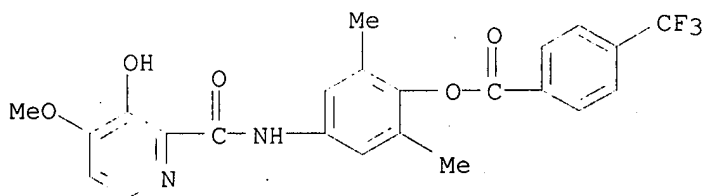
RN 321600-13-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-(benzoyloxy)-3,5-dimethylphenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



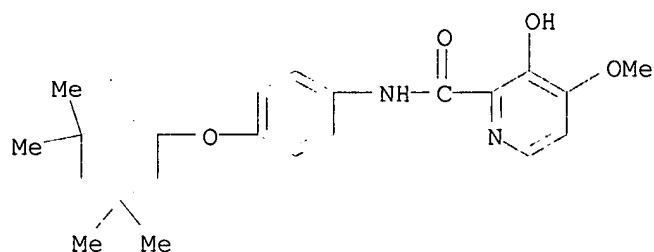
RN 321600-14-0 HCAPLUS

CN Benzoic acid, 4-(trifluoromethyl)-, 4-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-2,6-dimethylphenyl ester (9CI) (CA INDEX NAME)



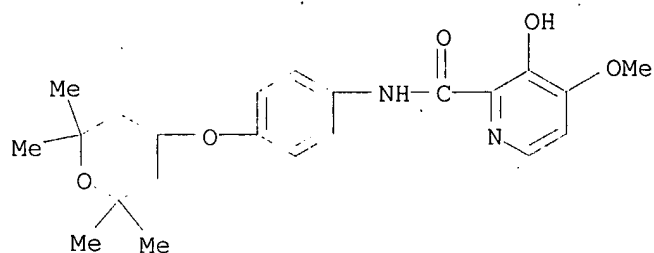
RN 321600-15-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(3,3,5,5-tetramethylcyclohexyl)oxy]phenyl]- (9CI) (CA INDEX NAME)



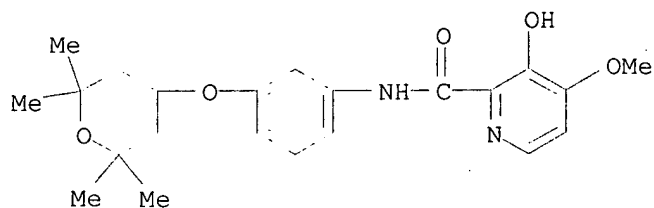
RN 321600-16-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(tetrahydro-2,2,6,6-tetramethyl-2H-pyran-4-yl)oxy]phenyl]- (9CI) (CA INDEX NAME)



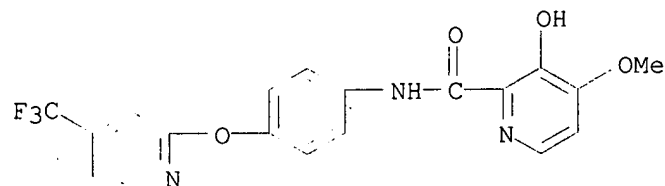
RN 321600-17-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[(tetrahydro-2,2,6,6-tetramethyl-2H-pyran-4-yl)oxy]phenyl]- (9CI) (CA INDEX NAME)



RN 321600-18-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[4-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

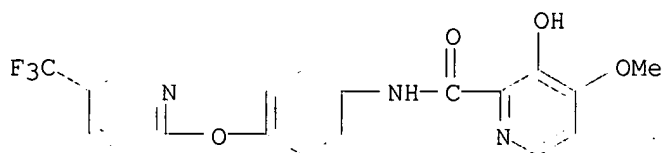


RN 321600-19-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

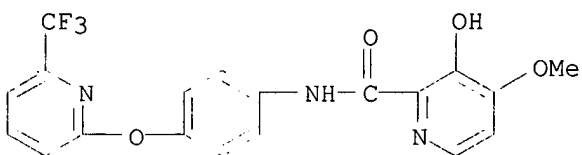
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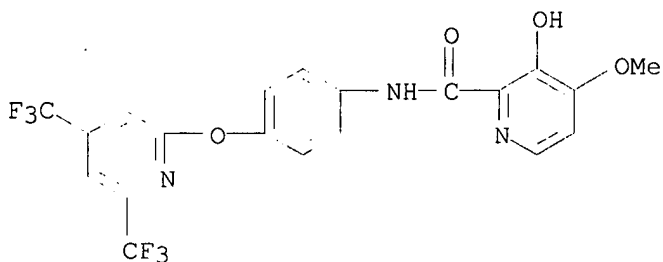
RN 321600-20-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[6-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



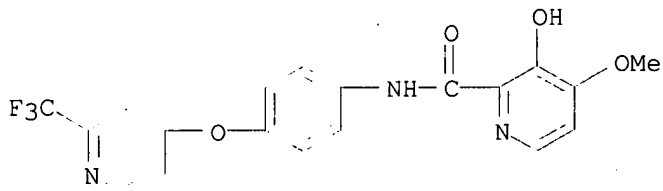
RN 321600-21-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-[[4,6-bis(trifluoromethyl)-2-pyridinyl]oxy]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321600-22-0 HCAPLUS

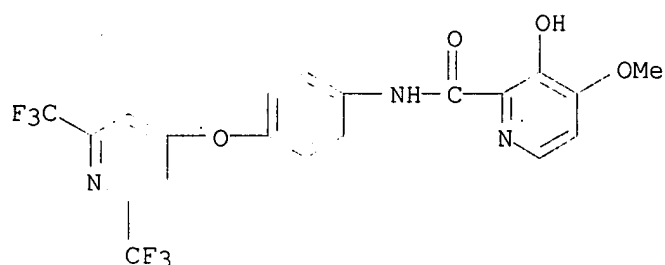
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[2-(trifluoromethyl)-4-pyridinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



RN 321600-23-1 HCAPLUS

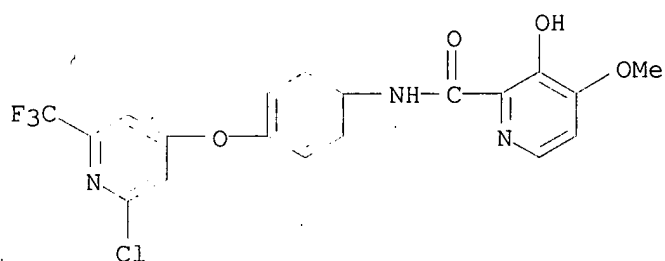
CN 2-Pyridinecarboxamide, N-[4-[[2,6-bis(trifluoromethyl)-4-pyridinyl]oxy]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

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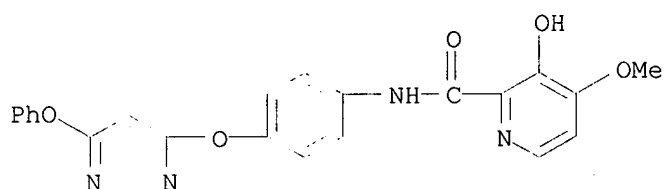
RN 321600-24-2 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-[[2-chloro-6-(trifluoromethyl)-4-pyridinyl]oxy]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321600-25-3 HCAPLUS

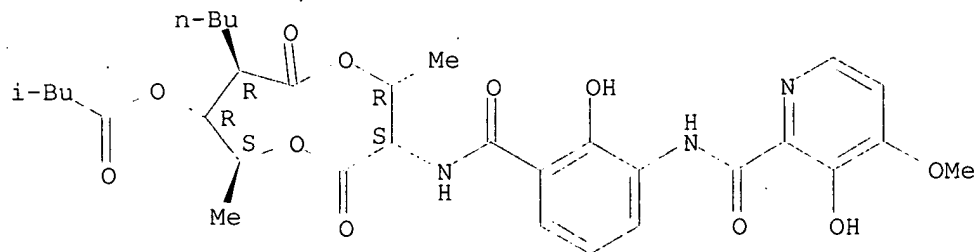
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(6-phenoxy-4-pyrimidinyl)oxy]phenyl]- (9CI) (CA INDEX NAME)



RN 321600-30-0 HCAPLUS

CN Butanoic acid, 3-methyl-, (2R,3S,6S,7R,8R)-8-butyl-3-[[[2-hydroxy-3-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]benzoyl]amino]-2,6-dimethyl-4,9-dioxo-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

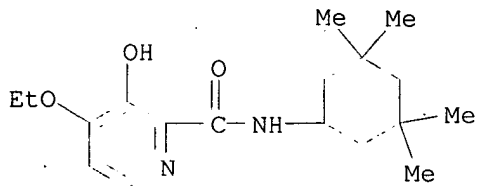




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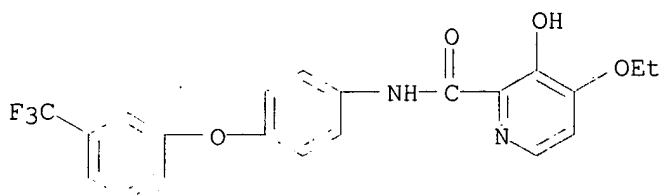
RN 321600-31-1 HCAPLUS

CN 2-Pyridinecarboxamide, 4-ethoxy-3-hydroxy-N-(3,3,5,5-tetramethylcyclohexyl)- (9CI) (CA INDEX NAME)



RN 321600-33-3 HCAPLUS

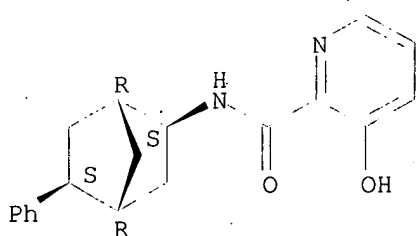
CN 2-Pyridinecarboxamide, 4-ethoxy-3-hydroxy-N-[4-[3-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 321601-50-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(1R,2S,4R,5S)-5-phenylbicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

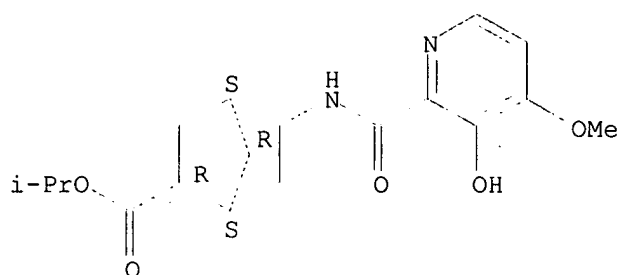
Relative stereochemistry.



RN 321601-51-8 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 5-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 1-methylethyl ester, (1R,2S,4R,5S)-rel- (9CI) (CA INDEX NAME)

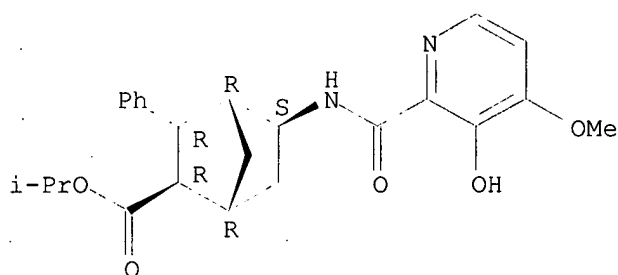
Relative stereochemistry.



RN 321601-52-9 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 5-[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-3-phenyl-, 1-methylethyl ester, (1R,2R,3R,4R,5S)-rel- (9CI) (CA INDEX NAME)

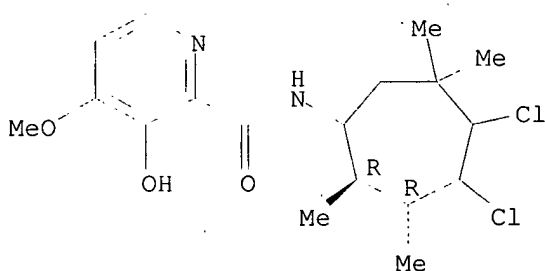
Relative stereochemistry.



RN 321744-54-1 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(2R,3R)-4,5-dichloro-2,3,6,6-tetramethylcycloheptyl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



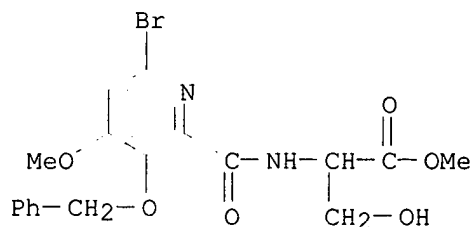
IT 321601-42-7 321601-43-8 321601-44-9

321601-45-0 321601-46-1

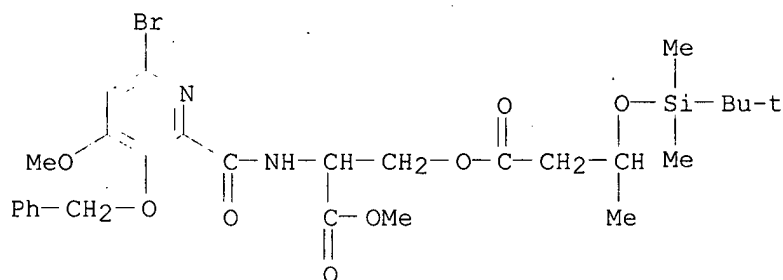
RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. and fungicidal activity of heterocyclic arom. amides)

RN 321601-42-7 HCAPLUS

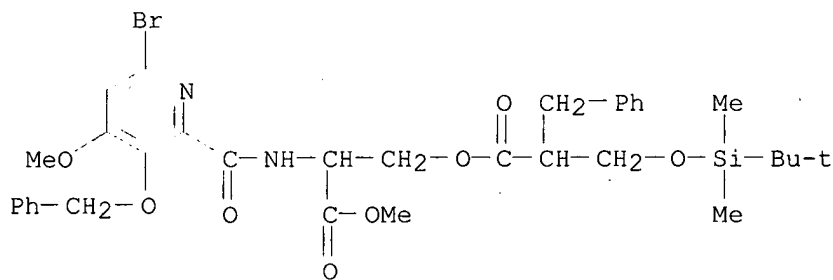
CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



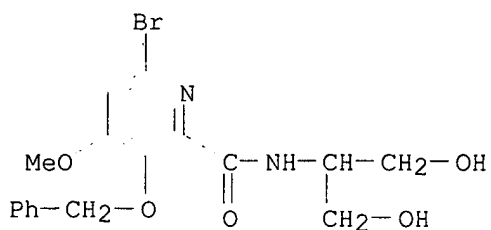
RN 321601-43-8 HCAPLUS  
 CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, methyl ester, 3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]butanoate (ester) (9CI) (CA INDEX NAME)



RN 321601-44-9 HCAPLUS  
 CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, methyl ester, .alpha.-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]benzene neopropanoate (ester) (9CI) (CA INDEX NAME)



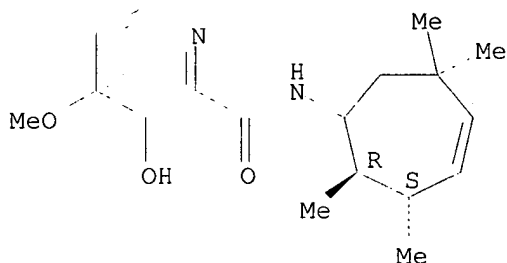
RN 321601-45-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 6-bromo-N-[2-hydroxy-1-(hydroxymethyl)ethyl]-4-methoxy-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 321601-46-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(2R,3S)-2,3,6,6-tetramethyl-4-cyclohepten-1-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 321597-60-8P 321597-61-9P 321597-62-0P

321597-63-1P 321597-64-2P 321597-65-3P

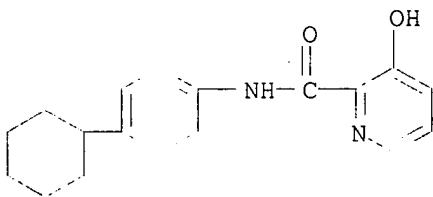
321597-72-2P 321597-73-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and fungicidal activity of heterocyclic arom. amides)

RN 321597-60-8 HCAPLUS

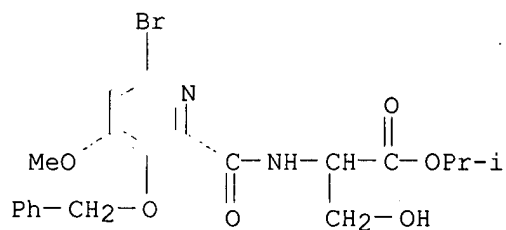
CN 2-Pyridinecarboxamide, N-(4-cyclohexylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



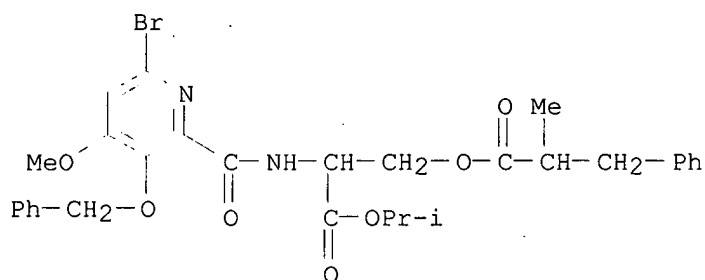
RN 321597-61-9 HCAPLUS

CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)

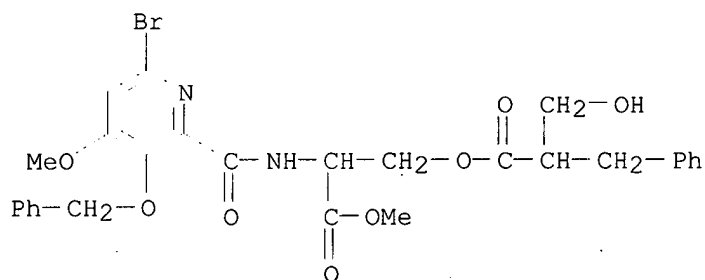
Robinson 09/830,923



RN 321597-62-0 HCAPLUS  
CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, 1-methylethyl ester, .alpha.-methylbenzenepropanoate (ester) (9CI) (CA INDEX NAME)

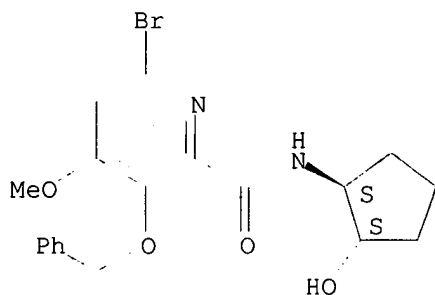


RN 321597-63-1 HCAPLUS  
CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, methyl ester, .alpha.-(hydroxymethyl)benzenepropanoate (ester) (9CI) (CA INDEX NAME)



RN 321597-64-2 HCAPLUS  
CN 2-Pyridinecarboxamide, 6-bromo-N-[(1S,2S)-2-hydroxycyclopentyl]-4-methoxy-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)

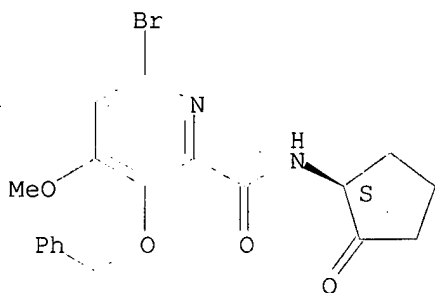
Absolute stereochemistry.



RN 321597-65-3 HCAPLUS

CN 2-Pyridinecarboxamide, 6-bromo-4-methoxy-N-[(1S)-2-oxocyclopentyl]-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)

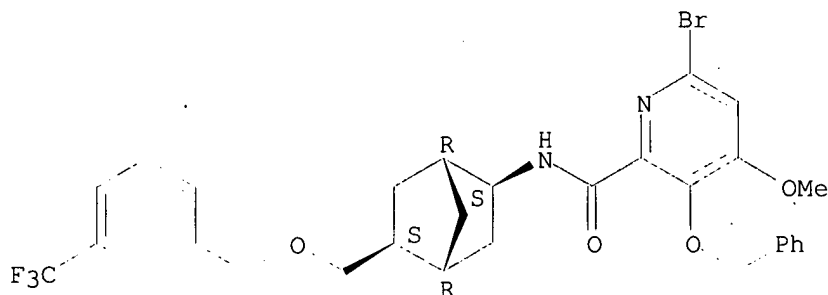
Absolute stereochemistry.



RN 321597-72-2 HCAPLUS

CN 2-Pyridinecarboxamide, 6-bromo-4-methoxy-3-(phenylmethoxy)-N-[(1R,2S,4R,5S)-5-[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

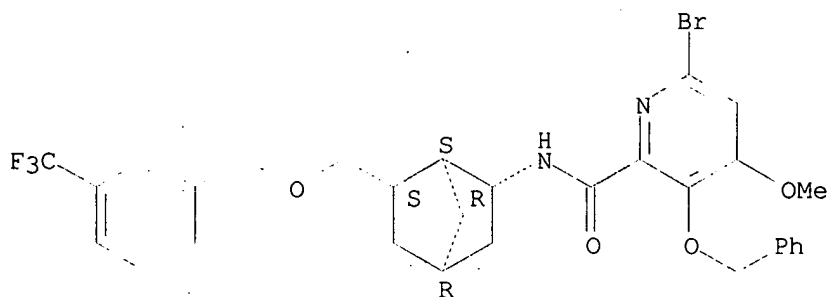
Relative stereochemistry.



RN 321597-73-3 HCAPLUS

CN 2-Pyridinecarboxamide, 6-bromo-4-methoxy-3-(phenylmethoxy)-N-[(1R,2S,4S,6R)-6-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

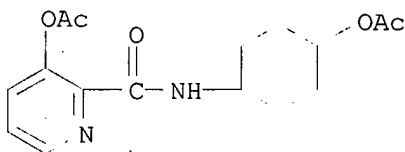


IT 328255-56-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of heterocyclic arom. amides as **fungicides**)

RN 328255-56-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-N-[4-(acetyloxy)cyclohexyl]- (9CI)  
(CA INDEX NAME)

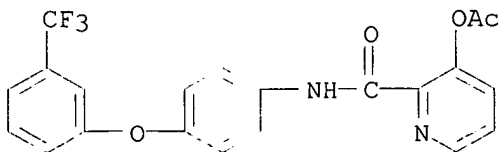


IT 328255-62-5P 328255-65-8P 328255-66-9P  
328255-67-0P 328255-68-1P 328255-69-2P  
328255-70-5P 328255-71-6P 328255-72-7P  
328255-74-9P 328255-76-1P 328255-77-2P  
328255-78-3P 328255-79-4P 328255-80-7P  
328255-81-8P 328256-93-5P 328256-95-7P  
328256-96-8P 328256-97-9P 328257-01-8P  
328257-03-0P 328257-05-2P 328396-57-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. of heterocyclic arom. amides as **fungicides**)

RN 328255-62-5 HCAPLUS

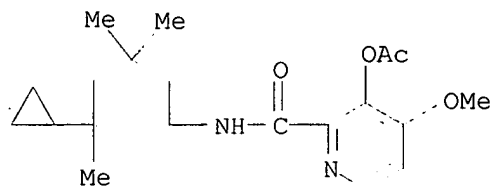
CN 2-Pyridinecarboxamide, 3-(acetyloxy)-N-[4-[3-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 328255-65-8 HCAPLUS

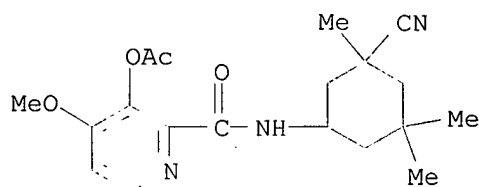
CN 2-Pyridinecarboxamide, 3-(acetyloxy)-N-(3-cyclopropyl-3,5,5-

trimethylcyclohexyl)-4-methoxy- (9CI) (CA INDEX NAME)



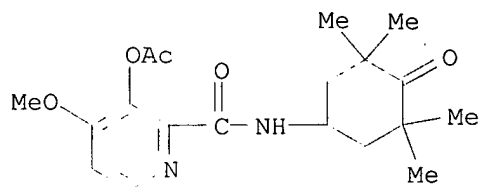
RN 328255-66-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-N-(3-cyano-3,5,5-trimethylcyclohexyl)-4-methoxy- (9CI) (CA INDEX NAME)



RN 328255-67-0 HCAPLUS

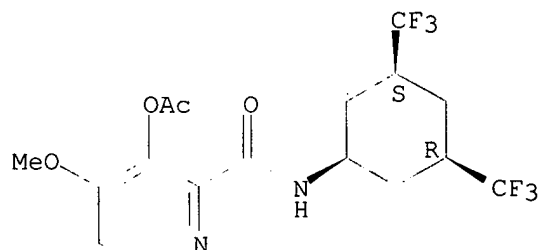
CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-(3,3,5,5-tetramethyl-4-oxocyclohexyl)- (9CI) (CA INDEX NAME)



RN 328255-68-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-N-[(1.alpha.,3.alpha.,5.alpha.)-3,5-bis(trifluoromethyl)cyclohexyl]-4-methoxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.



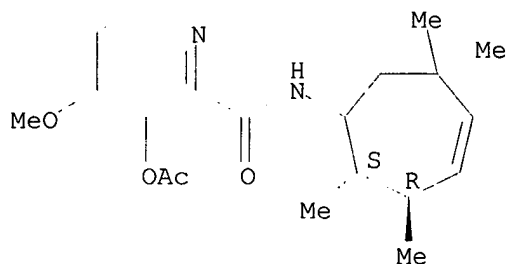
RN 328255-69-2 HCAPLUS



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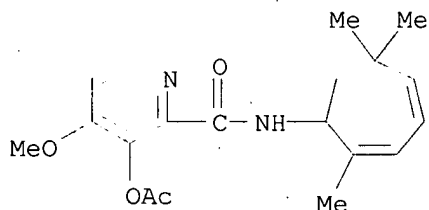
CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[(2R,3S)-2,3,6,6-tetramethyl-4-cyclohepten-1-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



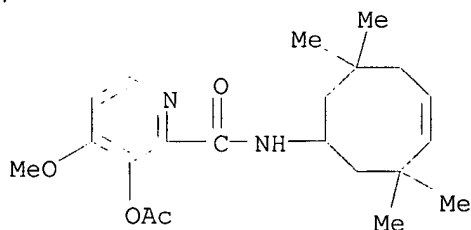
RN 328255-70-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-(2,6,6-trimethyl-2,4-cycloheptadien-1-yl)- (9CI) (CA INDEX NAME)



RN 328255-71-6 HCAPLUS

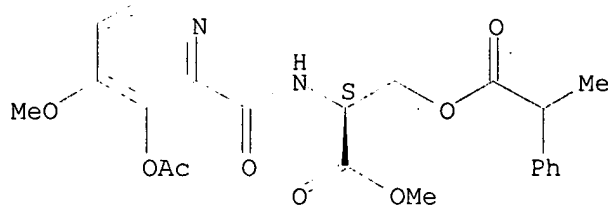
CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-(3,3,7,7-tetramethyl-4-cycloocten-1-yl)- (9CI) (CA INDEX NAME)



RN 328255-72-7 HCAPLUS

CN L-Serine, N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-, methyl ester, .alpha.-methylbenzeneacetate (ester) (9CI) (CA INDEX NAME)

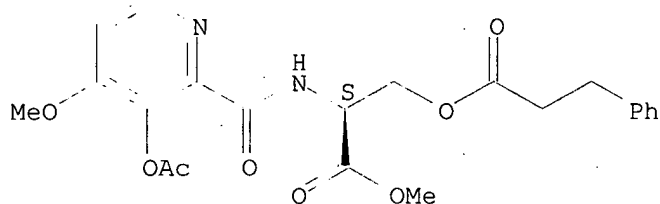
Absolute stereochemistry.



RN 328255-74-9 HCAPLUS

CN L-Serine, N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-, methyl ester, benzenepropanoate (ester) (9CI) (CA INDEX NAME)

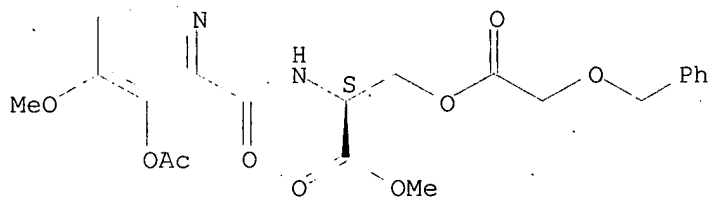
Absolute stereochemistry.



RN 328255-76-1 HCAPLUS

CN L-Serine; N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-, methyl ester, (phenylmethoxy)acetate (ester) (9CI) (CA INDEX NAME)

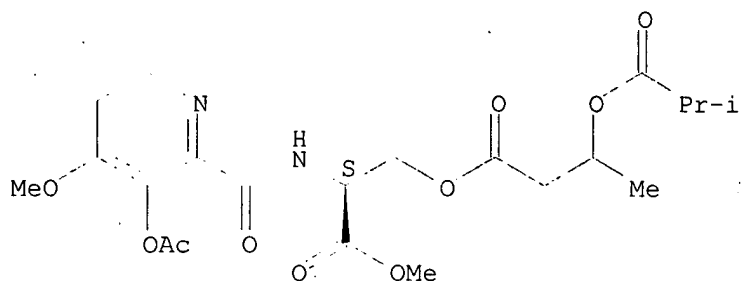
Absolute stereochemistry.



RN 328255-77-2 HCAPLUS

CN L-Serine, N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-, methyl ester, 3-(2-methyl-1-oxopropoxy)butanoate (ester) (9CI) (CA INDEX NAME)

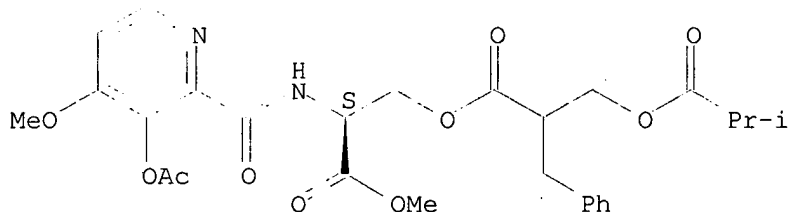
Absolute stereochemistry.



RN 328255-78-3 HCAPLUS

CN L-Serine, N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-, methyl ester, .alpha.-[(2-methyl-1-oxopropoxy)methyl]benzenepropanoate (ester) (9CI) (CA INDEX NAME)

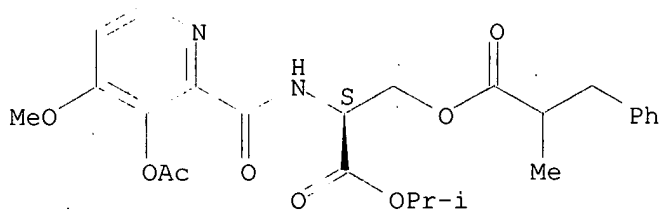
Absolute stereochemistry.



RN 328255-79-4 HCAPLUS

CN L-Serine, N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-, 1-methylethyl ester, .alpha.-methylbenzenepropanoate (ester) (9CI) (CA INDEX NAME)

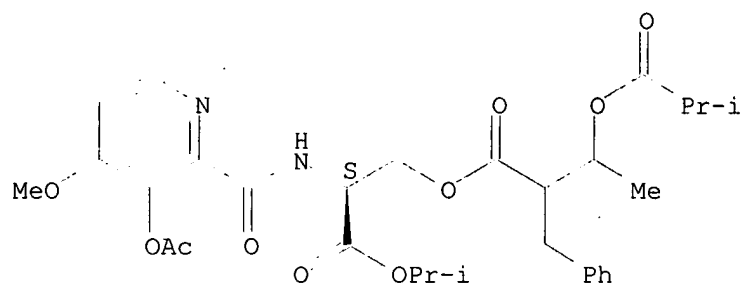
Absolute stereochemistry.



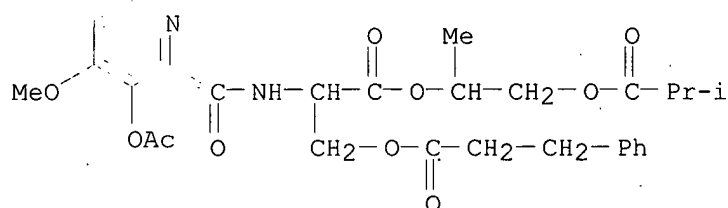
RN 328255-80-7 HCAPLUS

CN L-Serine, N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-, 1-methylethyl ester, .alpha.-[1-(2-methyl-1-oxopropoxy)ethyl]benzenepropanoate (ester) (9CI) (CA INDEX NAME)

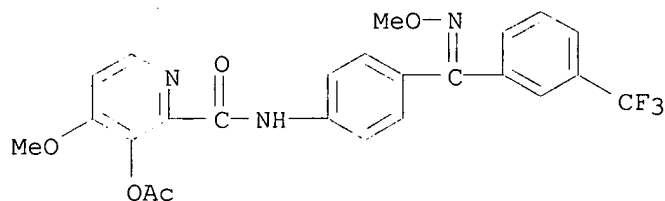
Absolute stereochemistry.



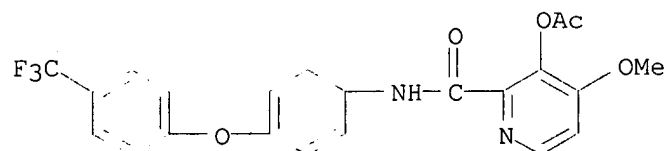
RN 328255-81-8 HCAPLUS  
 CN Serine, N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-,  
 1-methyl-2-(2-methyl-1-oxopropoxy)ethyl ester, benzenepropanoate (ester)  
 (9CI) (CA INDEX NAME)



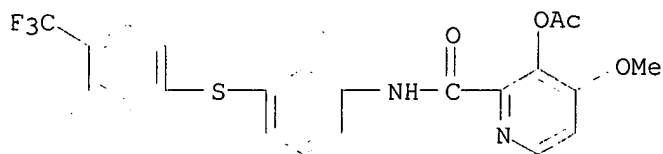
RN 328256-93-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[4-[(methoxyimino)[3-(trifluoromethyl)phenyl]methyl]phenyl]- (9CI) (CA INDEX NAME)



RN 328256-95-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)

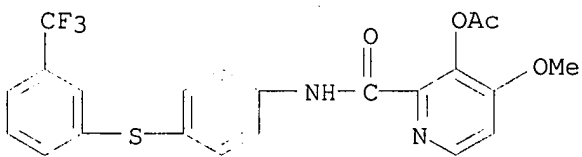


RN 328256-96-8 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[3-[[4-(trifluoromethyl)phenyl]thio]phenyl]- (9CI) (CA INDEX NAME)



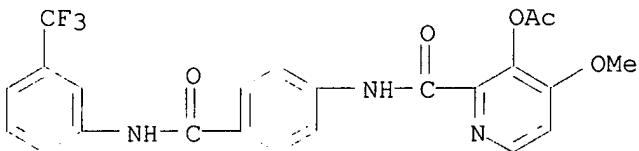
RN 328256-97-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]thio]phenyl]- (9CI) (CA INDEX NAME)



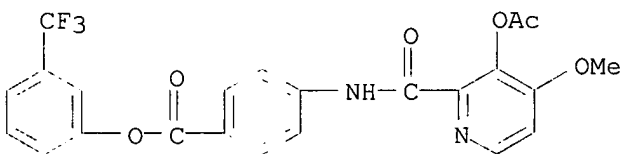
RN 328257-01-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[4-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]phenyl]- (9CI) (CA INDEX NAME)



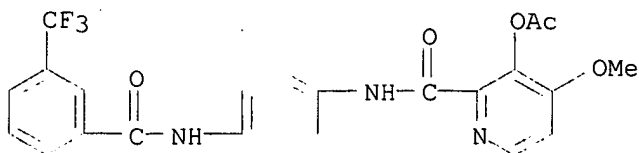
RN 328257-03-0 HCAPLUS

CN Benzoic acid, 4-[[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]amino]-, 3-(trifluoromethyl)phenyl ester (9CI) (CA INDEX NAME)



RN 328257-05-2 HCAPLUS

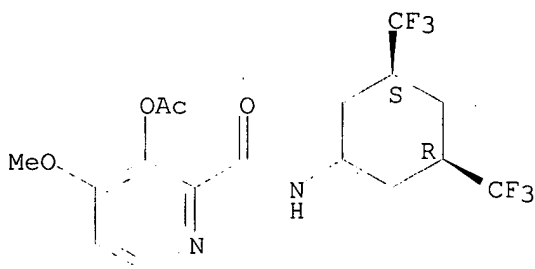
CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[4-[[3-(trifluoromethyl)benzoyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 328396-57-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-N-[(1.alpha.,3.beta.,5.beta.)-3,5-bis(trifluoromethyl)cyclohexyl]-4-methoxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.

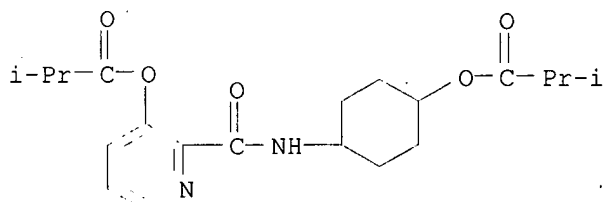


IT 328255-57-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of heterocyclic arom. amides as **fungicides**)

RN 328255-57-8 HCAPLUS

CN Propanoic acid, 2-methyl-, 2-[[[4-(2-methyl-1-oxopropoxy)cyclohexyl]amino]carbonyl]-3-pyridinyl ester (9CI) (CA INDEX NAME)



L30 ANSWER 9 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:63978 HCAPLUS

DOCUMENT NUMBER: 134:131431

TITLE: Fungicidal heterocyclic aromatic amides and their compositions, methods of use and preparation

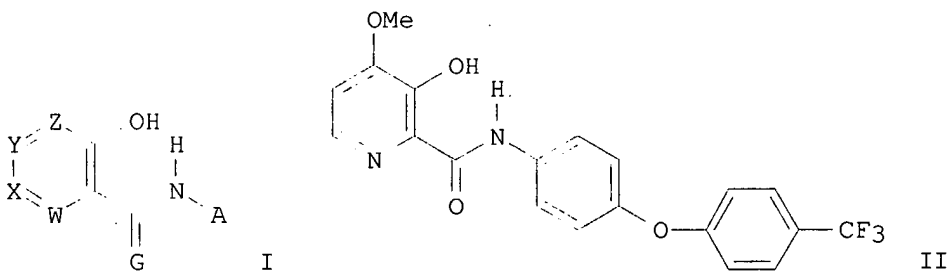
INVENTOR(S): Ricks, Michael John; Dent, William Hunter, III; Rogers, Richard Brewer; Yao, Chenglin; Nader, Bassam Salim; Miesel, John Louis; Fitzpatrick, Gina Marie; Meyer, Kevin Gerald; Niyaz, Noormohamed Mohamed; Morrison, Irene Mae; Gajewski, Robert Peter

PATENT ASSIGNEE(S): Dow Agrosiences LLC, USA

SOURCE: PCT Int. Appl., 159 pp.

CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005769	A2	20010125	WO 2000-US19794	20000720
WO 2001005769	A3	20011122		
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PRIORITY APPLN. INFO.:				
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			US 1999-150248P	P 19990823
			WO 2000-US19794	W 20000720
			US 2000-632930	A3 20000804
OTHER SOURCE(S): MARPAT 134:131431				
GI				



AB Title compds. I [W, X, Y, Z are selected from S, O, NR<sub>1</sub>, N, CR<sub>2</sub> or bond and comprise a 5-6 membered (un)substituted heterocyclic ring; R<sub>1</sub> = H, alkyl, alkenyl, alkynyl, OH, acyloxy, alkoxy, methyl, CHF<sub>2</sub>, cyclopropyl, or alkoxy; R<sub>2</sub> = H, halo, CN, OH, alkyl, haloalkyl, cyclopropyl, alkoxy, haloalkoxy, etc.; G = O, S or NOR<sub>3</sub> where R<sub>3</sub> = H or alkyl; A = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, unsatd. cycloalkyl, heterocycle, bi or tricyclic ring system which may contain heteroatoms, aryl or heteroaryl, etc.] bearing a hydroxy group adjacent to the amide functionality are prepd. and disclosed as antifungal agents, particularly

for plants. Thus, pyridinyl carboxamide II was prepd. via amidation of 3-benzyloxy-6-bromo-4-methoxypyridin-2-carbonyl chloride with 4-(4-trifluoromethylphenoxy)aniline with subsequent deprotection. The preferred fungicidal compn. consists of a compd. of formula I with a phytol. acceptable carrier. Activity has been demonstrated against a variety of fungi, e.g., *Plasmopara viticola* (Downy Mildew of Grape), *Phytophthora infestans* (Late Blight of Tomato), and *Venturia inaequalis* (Apple Scab). I is both useful for eradication and prevention of fungal attack.

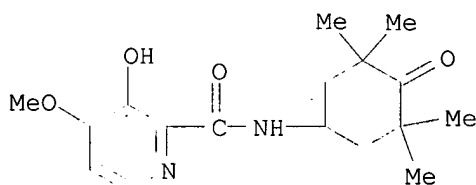
IT 321598-36-1P 321599-09-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. and fungicidal activity of heterocyclic arom. amides)

RN 321598-36-1 HCAPLUS

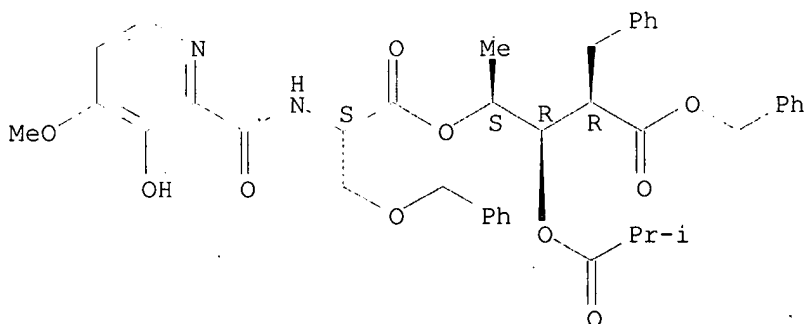
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3,3,5,5-tetramethyl-4-oxocyclohexyl)- (9CI) (CA INDEX NAME)



RN 321599-09-1 HCAPLUS

CN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, phenylmethyl ester, 3-(2-methylpropanoate), 4-ester with N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)-L-serine (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 1025-66-7P 1025-67-8P 1085-36-5P  
 1086-63-1P 1088-51-3P 1088-88-6P  
 1089-26-5P 166820-04-8P 267415-66-7P  
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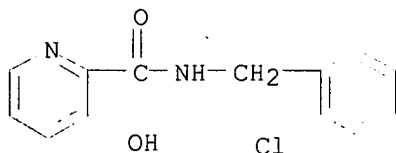
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321744-54-1P

Robinson 09/830,923

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and fungicidal activity of heterocyclic arom. amides)

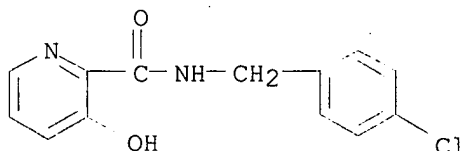
RN 1025-66-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(2-chlorophenyl)methyl]-3-hydroxy- (9CI) (CA INDEX NAME)



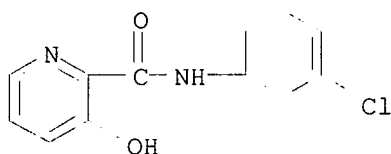
RN 1025-67-8 HCAPLUS

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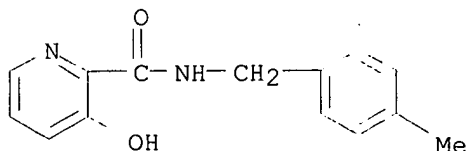
RN 1085-36-5 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



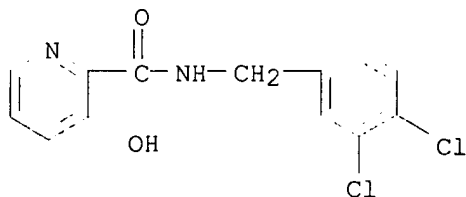
RN 1086-63-1 HCAPLUS

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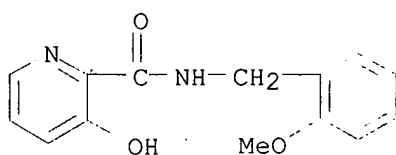


RN 1088-51-3 HCAPLUS

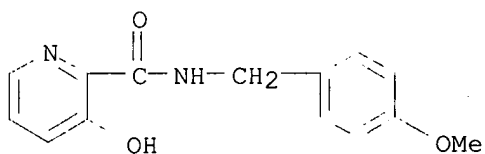
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RN 1088-88-6 HCAPLUS  
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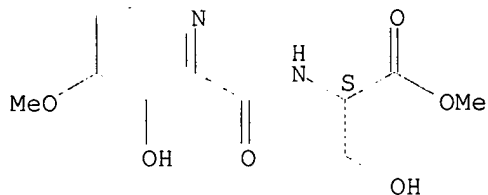


RN 1089-26-5 HCAPLUS  
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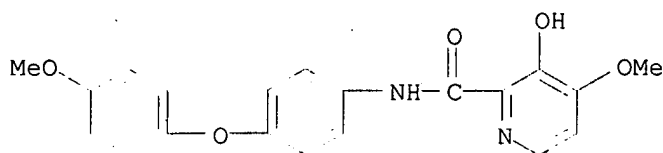


RN 166820-04-8 HCAPLUS  
 CN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

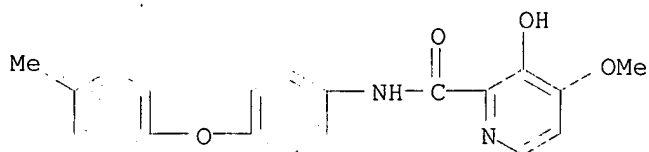
Absolute stereochemistry.



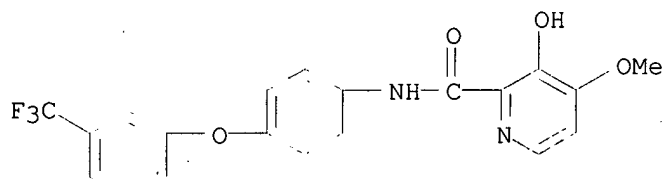
RN 267415-66-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(4-methoxyphenoxy)phenyl]- (9CI) (CA INDEX NAME)



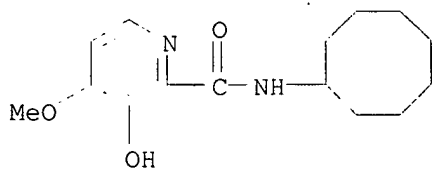
RN 267415-69-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(4-methylphenoxy)phenyl]-  
 (9CI) (CA INDEX NAME)



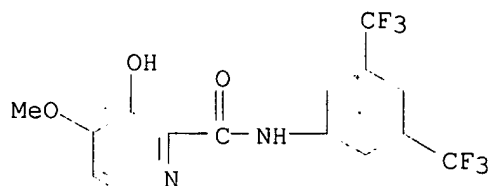
RN 267415-77-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[3-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



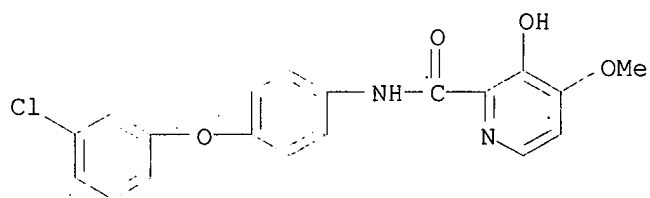
RN 267415-93-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-cyclooctyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



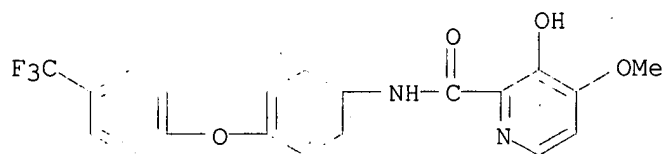
RN 313643-56-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[3,5-bis(trifluoromethyl)cyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



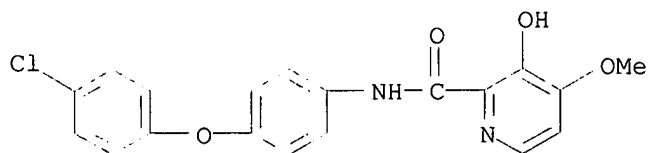
RN 313643-75-3 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(3-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



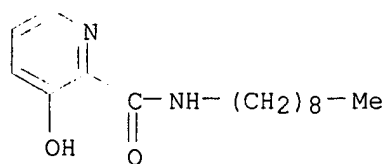
RN 313643-77-5 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



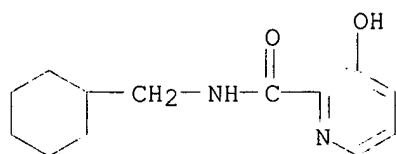
RN 313643-78-6 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(4-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



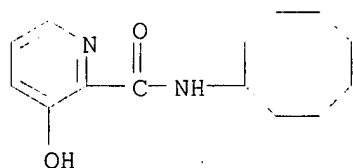
RN 321597-80-2 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-nonyl- (9CI) (CA INDEX NAME)



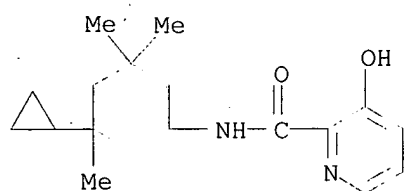
RN 321597-81-3 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(cyclohexylmethyl)-3-hydroxy- (9CI) (CA INDEX NAME)



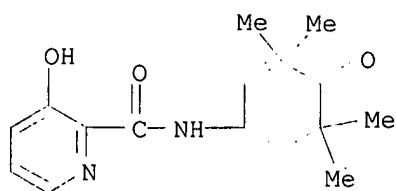
RN 321597-82-4 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-cyclooctyl-3-hydroxy- (9CI) (CA INDEX NAME)



RN 321597-83-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(3-cyclopropyl-3,5,5-trimethylcyclohexyl)-3-hydroxy- (9CI) (CA INDEX NAME)



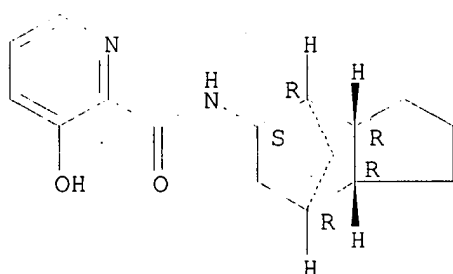
RN 321597-84-6 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-N-(3,3,5,5-tetramethyl-4-oxocyclohexyl)- (9CI) (CA INDEX NAME)



RN 321597-85-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(3aR,4R,5S,7R,7aR)-octahydro-4,7-methano-1H-inden-5-yl]-, rel- (9CI) (CA INDEX NAME)

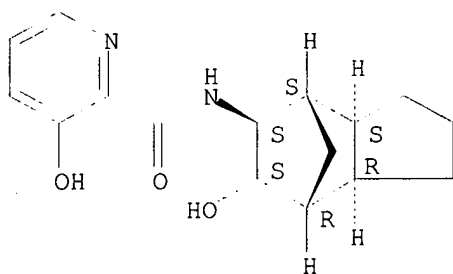
Relative stereochemistry.



RN 321597-86-8 HCAPLUS

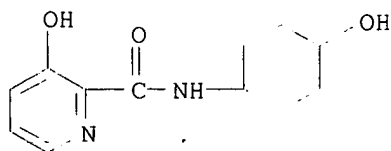
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(3aR,4R,5R,6R,7S,7aS)-octahydro-6-hydroxy-4,7-methano-1H-inden-5-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 321597-87-9 HCAPLUS

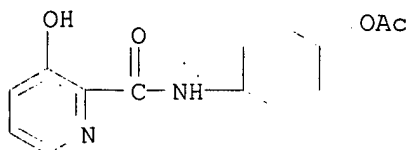
CN 2-Pyridinecarboxamide, 3-hydroxy-N-(4-hydroxycyclohexyl)- (9CI) (CA INDEX NAME)



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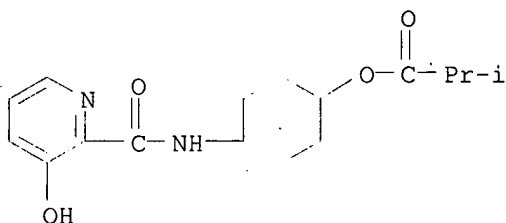
RN 321597-88-0 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-(acetyloxy)cyclohexyl]-3-hydroxy- (9CI) (CA INDEX NAME)



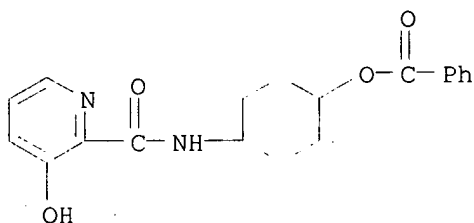
RN 321597-89-1 HCAPLUS

CN Propanoic acid, 2-methyl-, 4-[[[(3-hydroxy-2-pyridinyl)carbonyl]amino]cyclohexyl ester (9CI) (CA INDEX NAME)



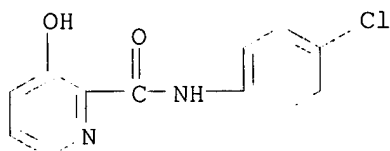
RN 321597-90-4 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-(benzoyloxy)cyclohexyl]-3-hydroxy- (9CI) (CA INDEX NAME)



RN 321597-91-5 HCAPLUS

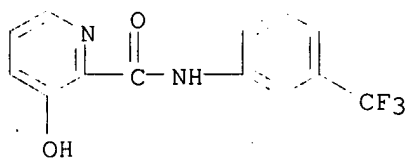
CN 2-Pyridinecarboxamide, N-(4-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



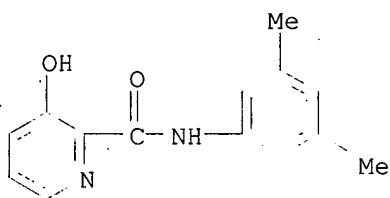
RN 321597-92-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

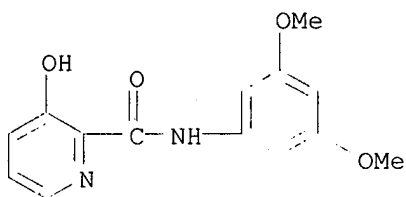




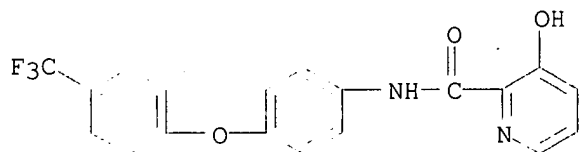
RN 321597-93-7 HCAPLUS  
CN 2-Pyridinecarboxamide, N-(3,5-dimethylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



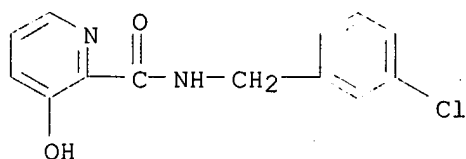
RN 321597-94-8 HCAPLUS  
CN 2-Pyridinecarboxamide, N-(3,5-dimethoxyphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



RN 321597-95-9 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)

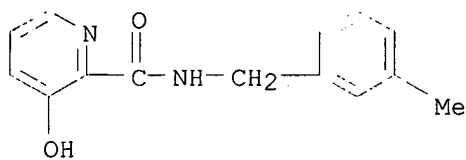


RN 321597-96-0 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[(3-chlorophenyl)methyl]-3-hydroxy- (9CI) (CA INDEX NAME)



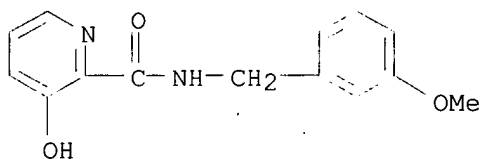
RN 321597-97-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(3-methylphenyl)methyl]- (9CI) (CA INDEX NAME)



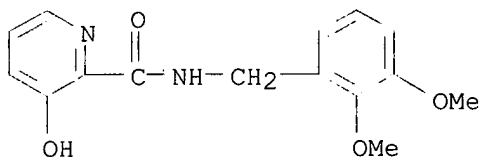
RN 321597-98-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(3-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



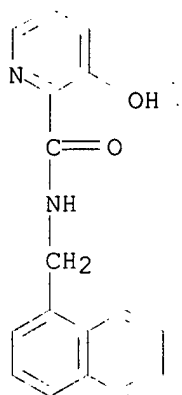
RN 321597-99-3 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(2,3-dimethoxyphenyl)methyl]-3-hydroxy- (9CI) (CA INDEX NAME)

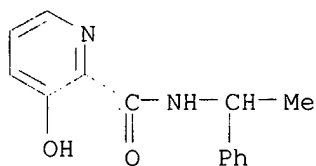


RN 321598-00-9 HCAPLUS

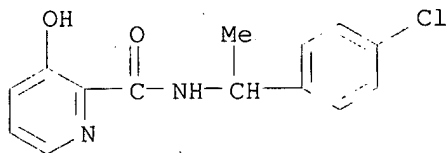
CN 2-Pyridinecarboxamide, 3-hydroxy-N-(1-naphthalenylmethyl)- (9CI) (CA INDEX NAME)



RN 321598-01-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)

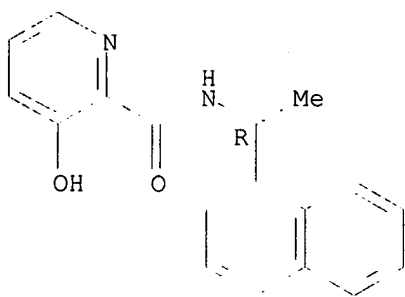


RN 321598-02-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[1-(4-chlorophenyl)ethyl]-3-hydroxy- (9CI) (CA INDEX NAME)



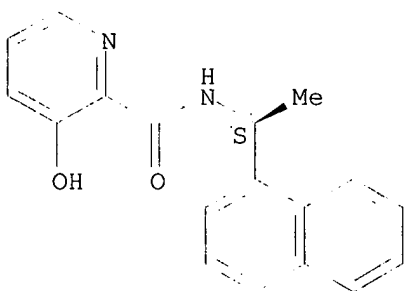
RN 321598-03-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(1R)-1-(1-naphthalenyl)ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

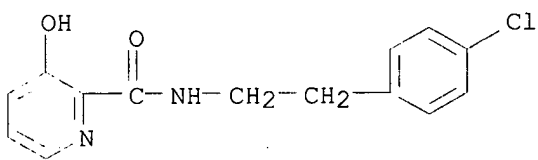


RN 321598-04-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[(1S)-1-(1-naphthalenyl)ethyl]- (9CI)  
(CA INDEX NAME)

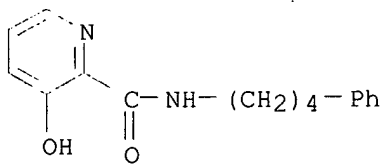
Absolute stereochemistry.



RN 321598-05-4 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[2-(4-chlorophenyl)ethyl]-3-hydroxy- (9CI) (CA  
INDEX NAME)



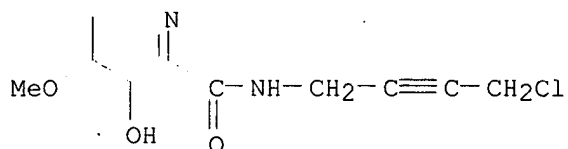
RN 321598-06-5 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-(4-phenylbutyl)- (9CI) (CA INDEX NAME)



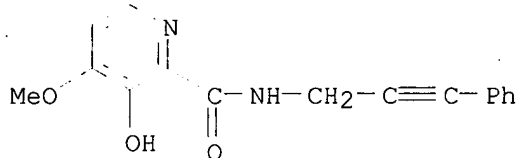
RN 321598-11-2 HCAPLUS

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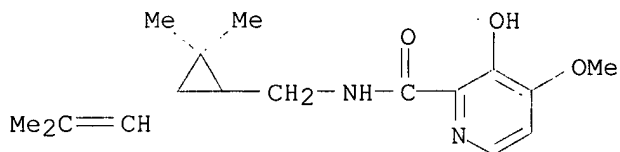
CN 2-Pyridinecarboxamide, N-(4-chloro-2-butynyl)-3-hydroxy-4-methoxy- (9CI)  
(CA INDEX NAME)



RN 321598-12-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3-phenyl-2-propynyl)- (9CI)  
(CA INDEX NAME)

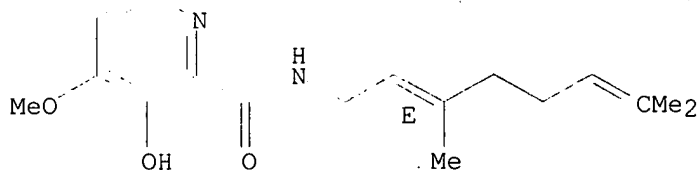


RN 321598-13-4 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]methyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

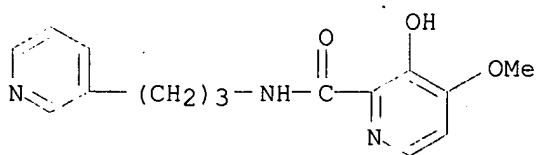


RN 321598-14-5 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[(2E)-3,7-dimethyl-2,6-octadienyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

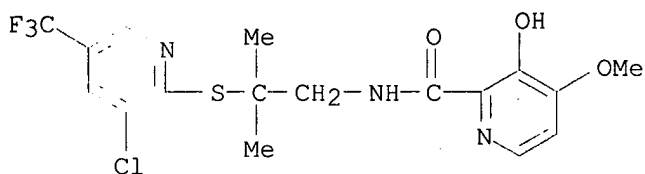
Double bond geometry as shown.



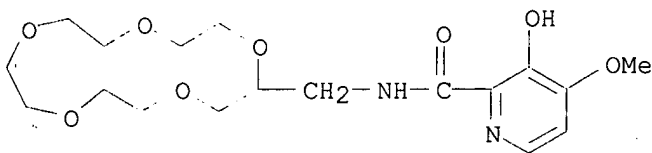
RN 321598-15-6 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(3-pyridinyl)propyl]- (9CI) (CA INDEX NAME)



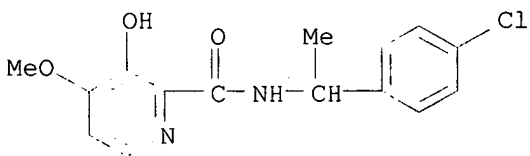
RN 321598-16-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[2-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]thio]-2-methylpropyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



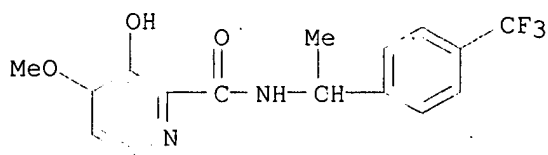
RN 321598-17-8 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1,4,7,10,13-pentaoxacyclopentadec-2-ylmethyl)- (9CI) (CA INDEX NAME)



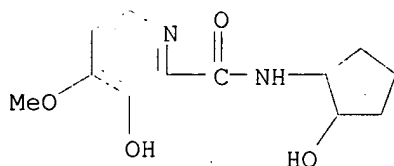
RN 321598-18-9 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[1-(4-chlorophenyl)ethyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



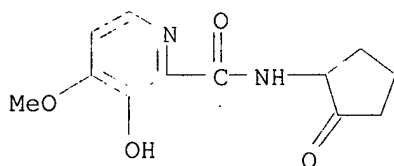
RN 321598-19-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[1-[4-(trifluoromethyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)



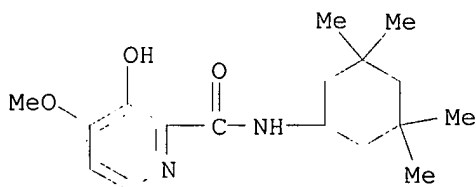
RN 321598-20-3 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-N-(2-hydroxycyclopentyl)-4-methoxy- (9CI)  
 (CA INDEX NAME)



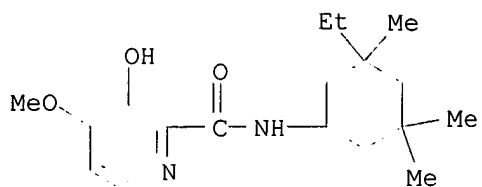
RN 321598-21-4 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2-oxocyclopentyl)- (9CI)  
 (CA INDEX NAME)



RN 321598-22-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3,3,5,5-tetramethylcyclohexyl)- (9CI) (CA INDEX NAME)

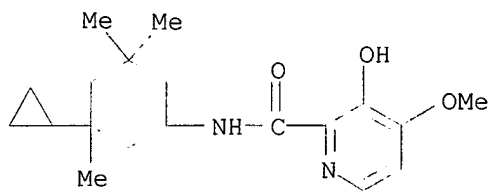


RN 321598-23-6 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(3-ethyl-3,5,5-trimethylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



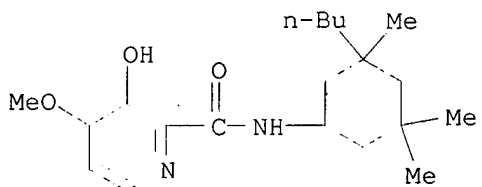
RN 321598-24-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-cyclopropyl-3,5,5-trimethylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



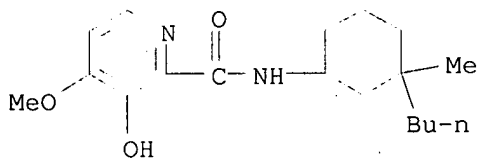
RN 321598-25-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-butyl-3,5,5-trimethylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-26-9 HCAPLUS

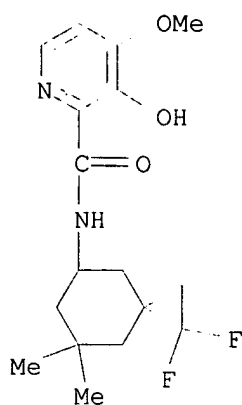
CN 2-Pyridinecarboxamide, N-(3-butyl-3-methylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



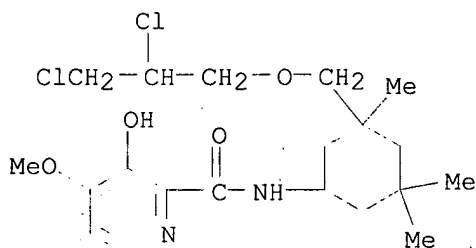
RN 321598-27-0 HCAPLUS

CN 2-Pyridinecarboxamide, N-(1,1-difluoro-7,7-dimethylspiro[2.5]oct-5-yl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

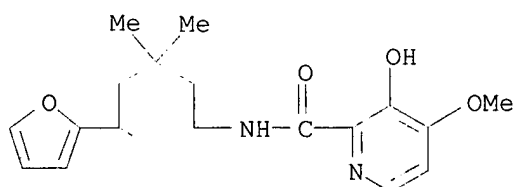




RN 321598-28-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[3-[(2,3-dichloropropoxy)methyl]-3,5,5-trimethylcyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

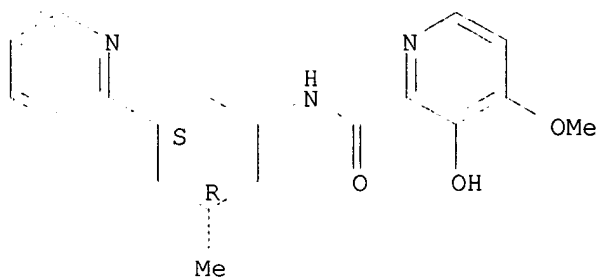


RN 321598-29-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[5-(2-furanyl)-3,3-dimethylcyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



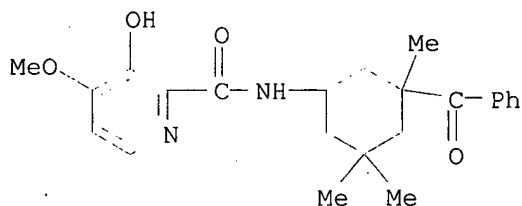
RN 321598-30-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(3R,5S)-3-methyl-5-(2-pyridinyl)cyclohexyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



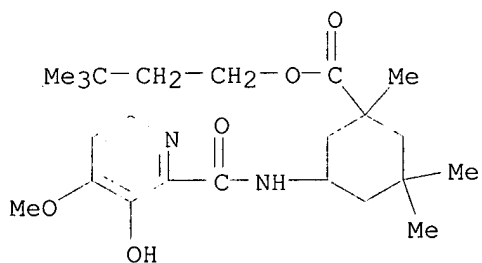
RN 321598-31-6 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3-benzoyl-3,5,5-trimethylcyclohexyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-32-7 HCAPLUS

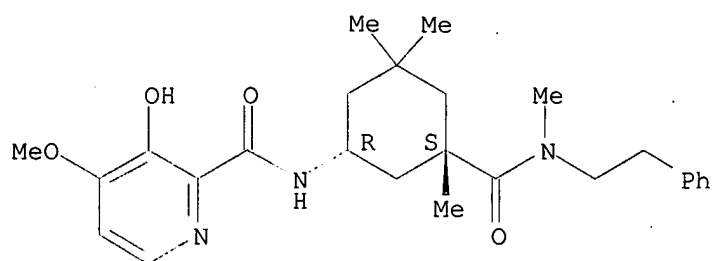
CN Cyclohexanecarboxylic acid, 5-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-1,3,3-trimethyl-, 3,3-dimethylbutyl ester (9CI) (CA INDEX NAME)



RN 321598-33-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,5S)-3,3,5-trimethyl-5-[[methyl(2-phenylethyl)amino]carbonyl]cyclohexyl]-, rel- (9CI) (CA INDEX NAME)

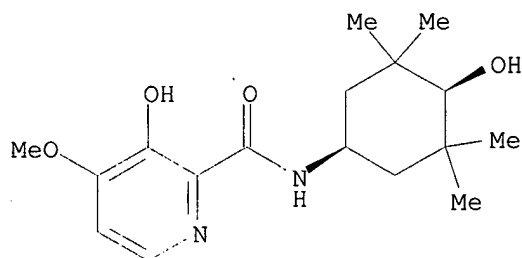
Relative stereochemistry.



RN 321598-34-9 HCAPLUS

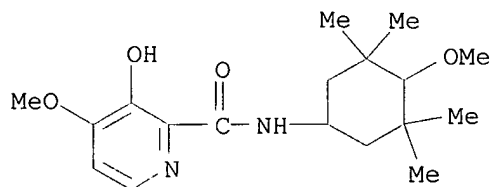
CN 2-Pyridinecarboxamide, 3-hydroxy-N-(cis-4-hydroxy-3,3,5,5-tetramethylcyclohexyl)-4-methoxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.



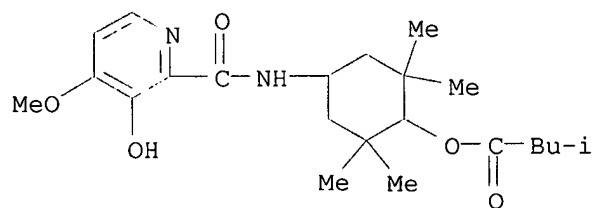
RN 321598-35-0 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(4-methoxy-3,3,5,5-tetramethylcyclohexyl)- (9CI) (CA INDEX NAME)



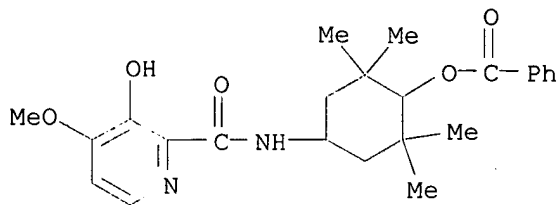
RN 321598-37-2 HCAPLUS

CN Butanoic acid, 3-methyl-, 4-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-2,2,6,6-tetramethylcyclohexyl ester (9CI) (CA INDEX NAME)

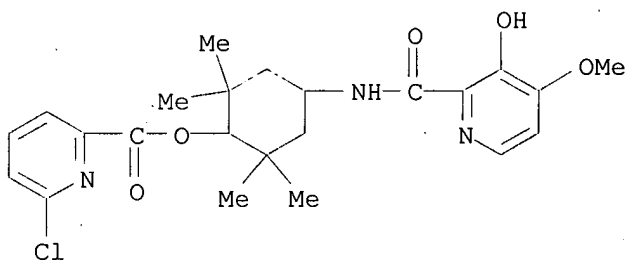


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RN 321598-38-3 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(benzoyloxy)-3,3,5,5-tetramethylcyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

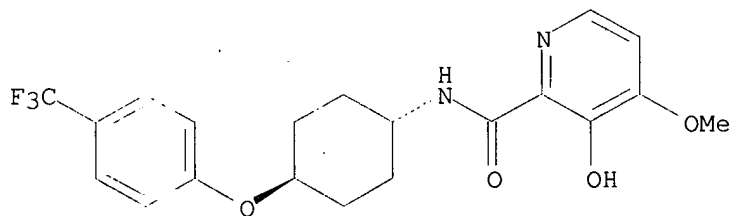


RN 321598-39-4 HCAPLUS  
CN 2-Pyridinecarboxylic acid, 6-chloro-, 4-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-2,2,6,6-tetramethylcyclohexyl ester (9CI) (CA INDEX NAME)



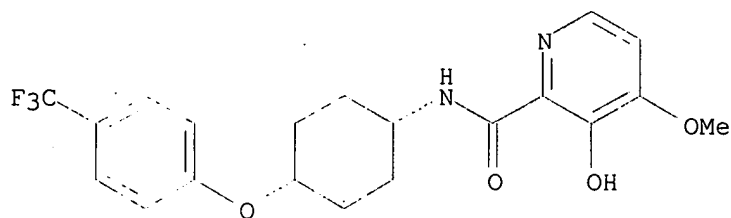
RN 321598-40-7 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[trans-4-[4-(trifluoromethyl)phenoxy]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



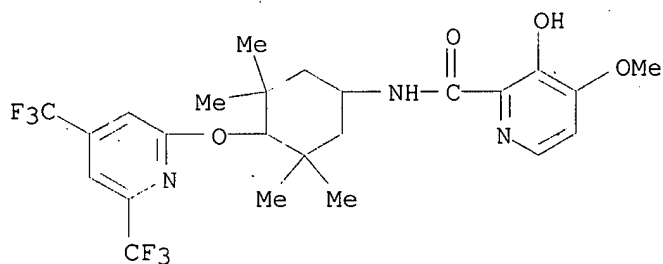
RN 321598-41-8 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[cis-4-[4-(trifluoromethyl)phenoxy]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 321598-42-9 HCAPLUS

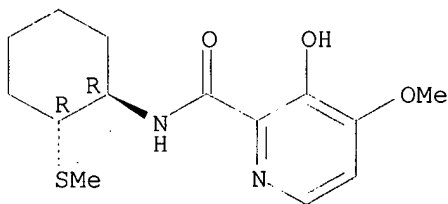
CN 2-Pyridinecarboxamide, N-[4-[[4,6-bis(trifluoromethyl)-2-pyridinyl]oxy]-3,3,5,5-tetramethylcyclohexyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-43-0 HCAPLUS

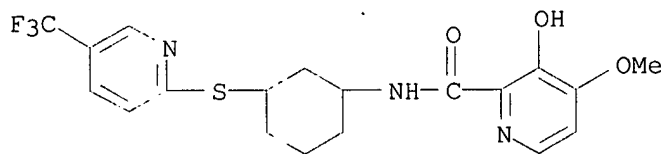
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2R)-2-(methylthio)cyclohexyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



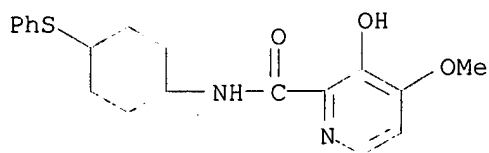
RN 321598-44-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[[5-(trifluoromethyl)-2-pyridinyl]thio]cyclohexyl]- (9CI) (CA INDEX NAME)



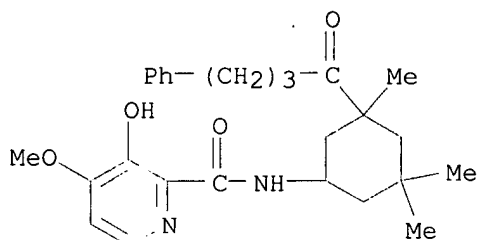
RN 321598-45-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(phenylthio)cyclohexyl]- (9CI) (CA INDEX NAME)



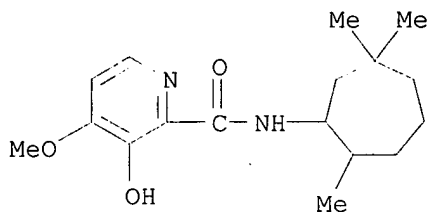
RN 321598-46-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3,3,5-trimethyl-5-(1-oxo-4-phenylbutyl)cyclohexyl]- (9CI) (CA INDEX NAME)



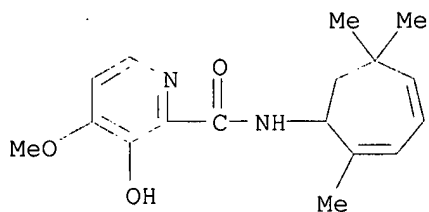
RN 321598-47-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2,6,6-trimethylcycloheptyl)- (9CI) (CA INDEX NAME)



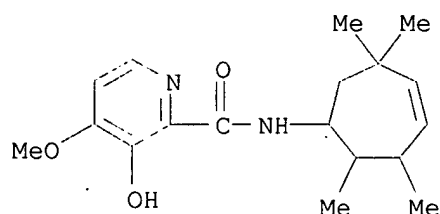
RN 321598-48-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2,6,6-trimethyl-2,4-cycloheptadien-1-yl)- (9CI) (CA INDEX NAME)



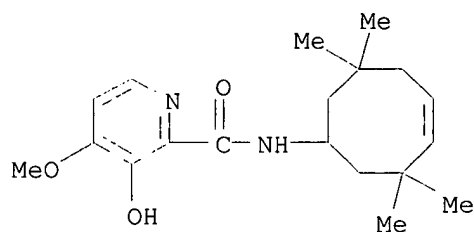
RN 321598-49-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2,3,6,6-tetramethyl-4-cyclohepten-1-yl)- (9CI) (CA INDEX NAME)



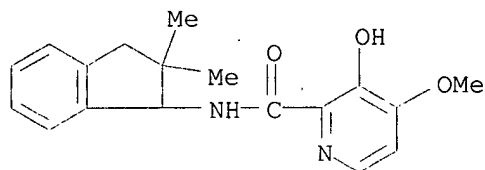
RN 321598-50-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3,3,7,7-tetramethyl-4-cycloocten-1-yl)- (9CI) (CA INDEX NAME)



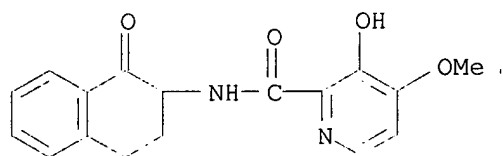
RN 321598-51-0 HCAPLUS

CN 2-Pyridinecarboxamide, N-(2,3-dihydro-2,2-dimethyl-1H-inden-1-yl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321598-52-1 HCAPLUS

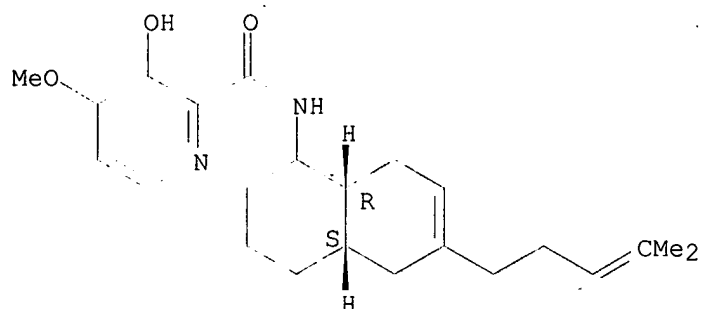
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1,2,3,4-tetrahydro-1-oxo-2-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 321598-53-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(4aR,8aS)-1,2,3,4,4a,5,8,8a-octahydro-6-(4-methyl-3-pentenyl)-1-naphthalenyl]-, rel- (9CI) (CA INDEX NAME)

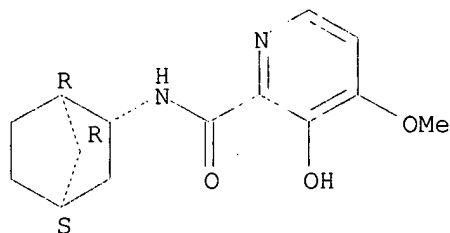
Relative stereochemistry.



RN 321598-54-3 HCAPLUS

CN 2-Pyridinecarboxamide, N-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

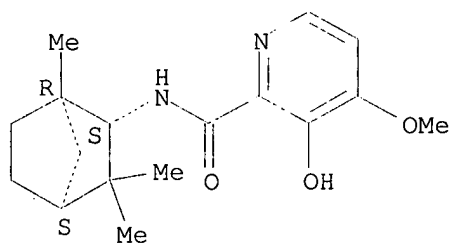
Relative stereochemistry.



RN 321598-55-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4S)-1,3,3-trimethylbicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

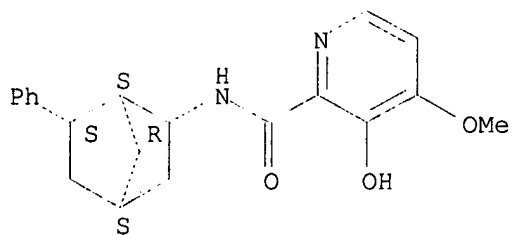


RN 321598-56-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4R,6R)-6-phenylbicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

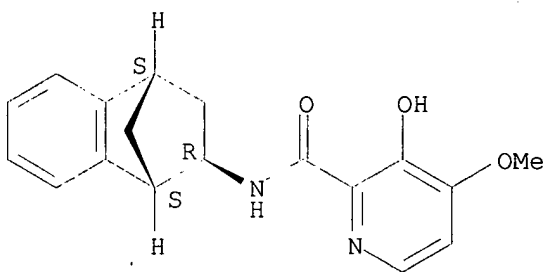




RN 321598-57-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4R)-1,2,3,4-tetrahydro-1,4-methanonaphthalen-2-yl]-, rel- (9CI) (CA INDEX NAME)

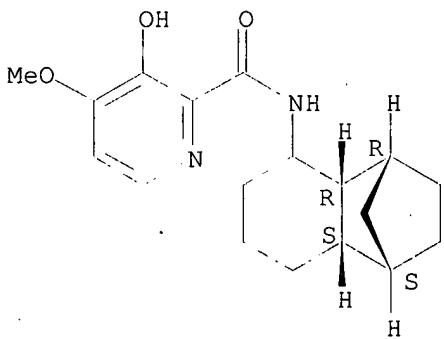
Relative stereochemistry.



RN 321598-58-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(1R,4S,4aS,8aR)-decahydro-1,4-methanonaphthalen-5-yl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

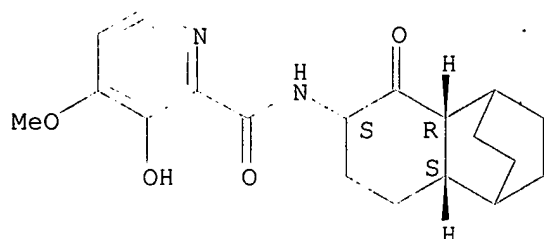
Relative stereochemistry.



RN 321598-59-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(4aR,6S,8aS)-decahydro-5-oxo-1,4-ethanonaphthalen-6-yl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

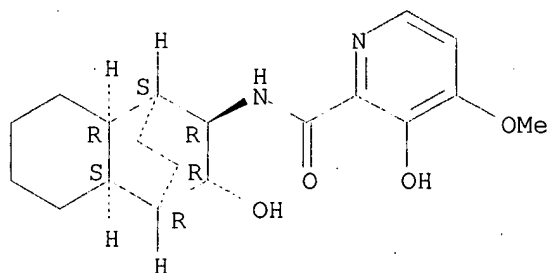
Relative stereochemistry.



RN 321598-60-1 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(1R,2S,3S,4S,4aR,8aS)-decahydro-3-hydroxy-1,4-ethanonaphthalen-2-yl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

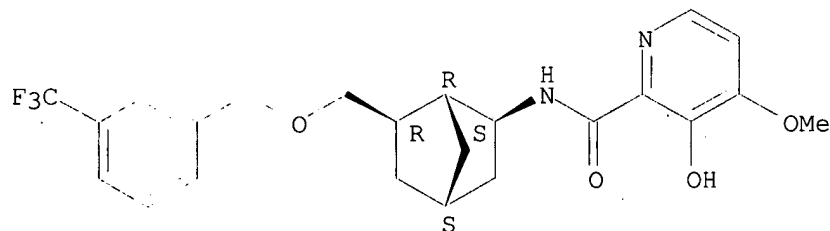
Relative stereochemistry.



RN 321598-61-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4S,6R)-6-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

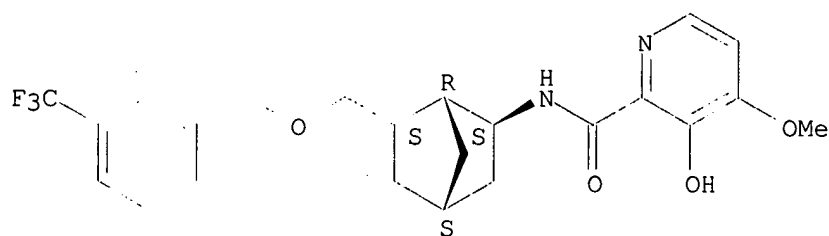
Relative stereochemistry.



RN 321598-62-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4S,6S)-6-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

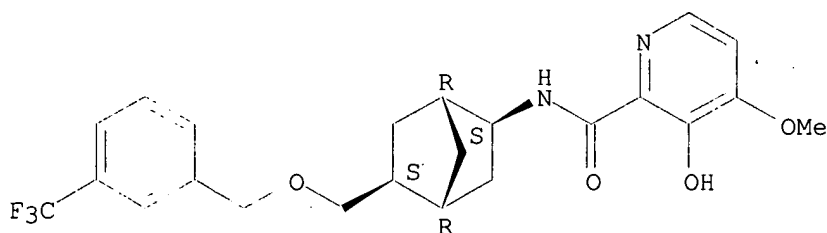
Relative stereochemistry.



RN 321598-63-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4R,5S)-5-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel-(9CI) (CA INDEX NAME)

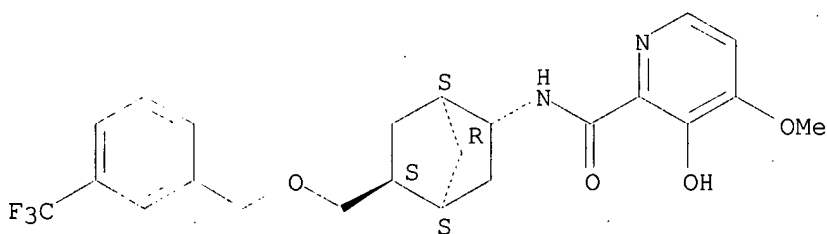
Relative stereochemistry.



RN 321598-64-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S,4R,5R)-5-[[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel-(9CI) (CA INDEX NAME)

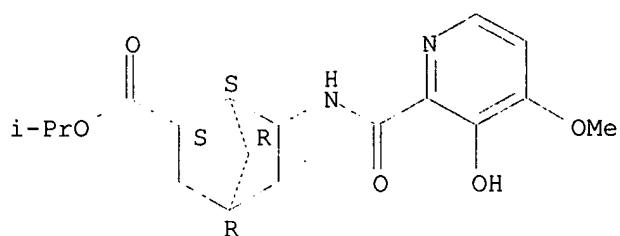
Relative stereochemistry.



RN 321598-65-6 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 6-[[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-, 1-methylethyl ester, (1R,2R,4S,6S)-rel- (9CI) (CA INDEX NAME)

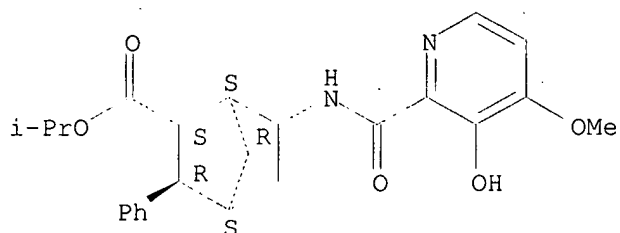
Relative stereochemistry.



RN 321598-66-7 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 6-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-3-phenyl-, 1-methylethyl ester, (1R,2R,3S,4R,6S)-rel- (9CI) (CA INDEX NAME)

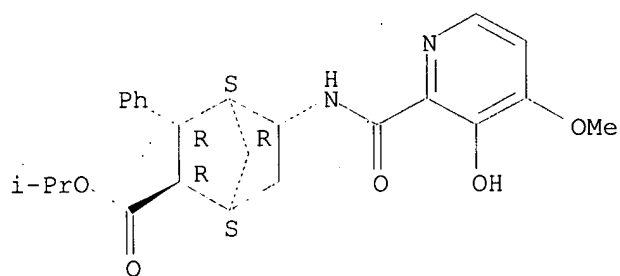
Relative stereochemistry.



RN 321598-67-8 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 5-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-3-phenyl-, 1-methylethyl ester, (1R,2S,3S,4R,5S)-rel- (9CI) (CA INDEX NAME)

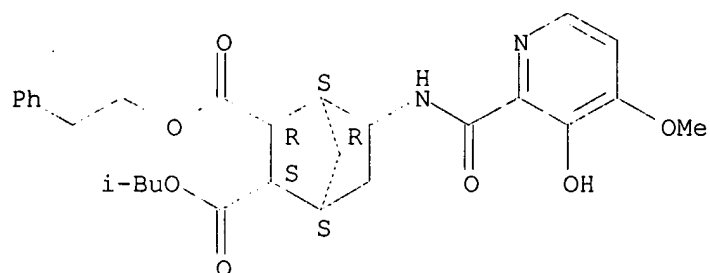
Relative stereochemistry.



RN 321598-68-9 HCAPLUS

CN Bicyclo[2.2.1]heptane-2,3-dicarboxylic acid, 5-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 2-(2-methylpropyl) 3-(2-phenylethyl) ester, (1R,2R,3S,4R,5S)-rel- (9CI) (CA INDEX NAME)

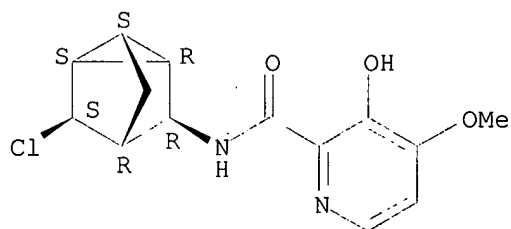
Relative stereochemistry.



RN 321598-71-4 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(1R,2S,3S,4S,5R,6R)-5-chlorotricyclo[2.2.1.0<sup>2,6</sup>]hept-3-yl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

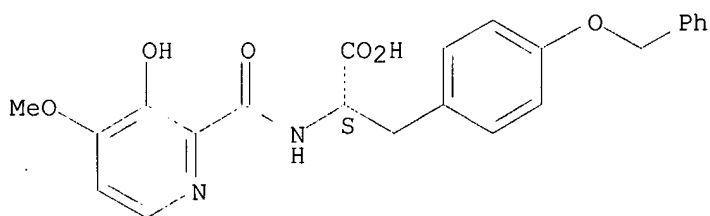
Relative stereochemistry.



RN 321599-05-7 HCAPLUS

CN L-Tyrosine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

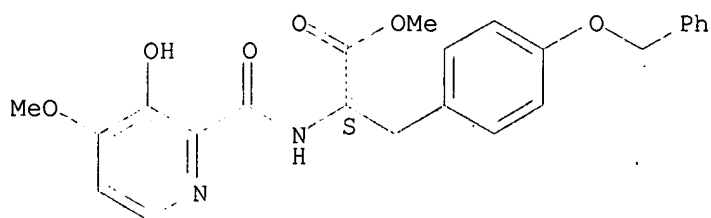


RN 321599-06-8 HCAPLUS

CN L-Tyrosine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

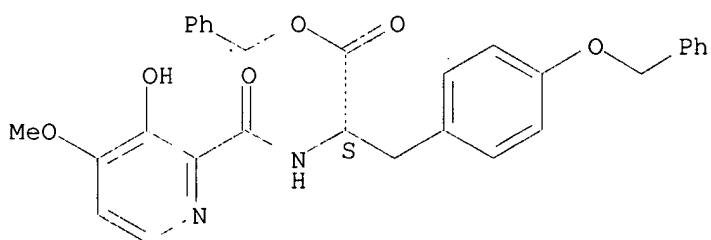
Robinson 09/830,923



RN 321599-07-9 HCAPLUS

CN L-Tyrosine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)

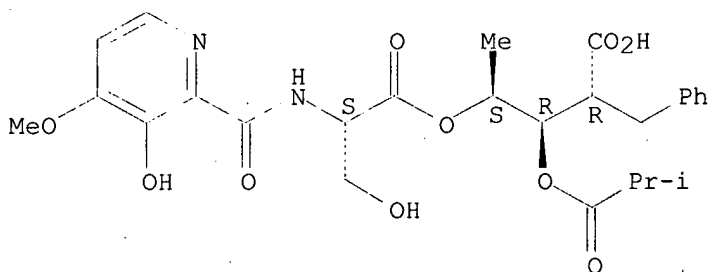
Absolute stereochemistry.



RN 321599-08-0 HCAPLUS

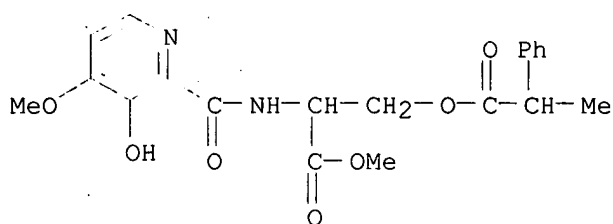
CN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, 3-(2-methylpropanoate), 4-ester with N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-L-serine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

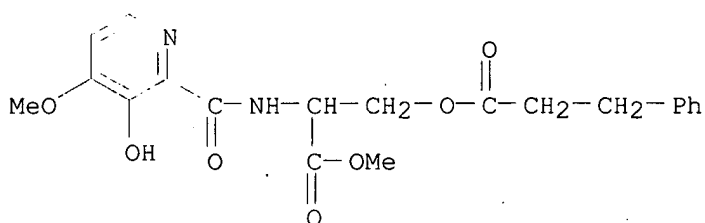


RN 321599-10-4 HCAPLUS

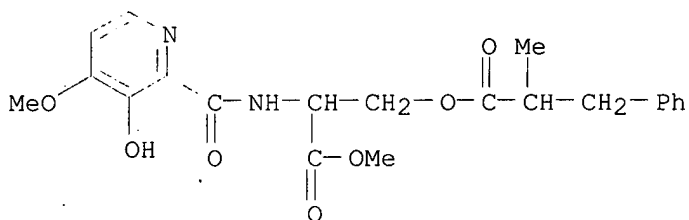
CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-(.alpha.-methylbenzeneacetate) (9CI) (CA INDEX NAME)



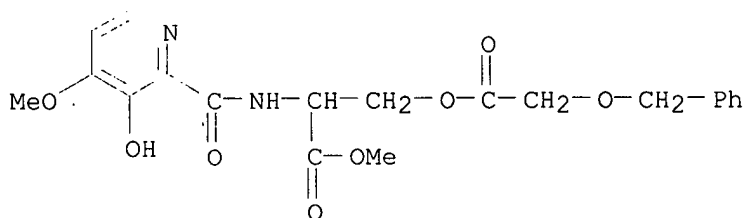
RN 321599-11-5 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-benzenepropanoate (9CI) (CA INDEX NAME)



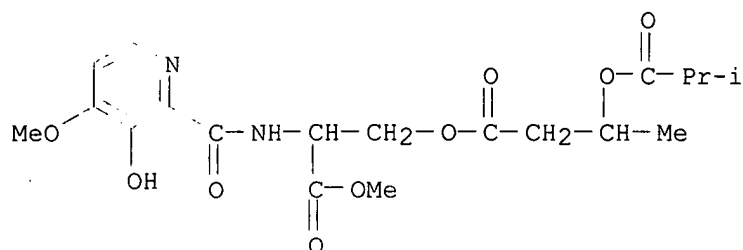
RN 321599-12-6 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-(.alpha.-methylbenzenepropanoate) (9CI) (CA INDEX NAME)



RN 321599-13-7 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[(phenylmethoxy)acetate] (9CI) (CA INDEX NAME)

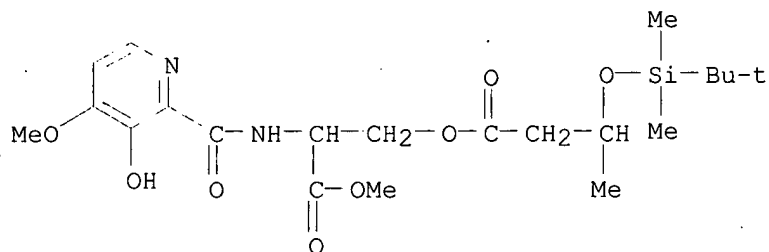


RN 321599-14-8 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[3-(2-methyl-1-oxopropoxy)butanoate] (9CI) (CA INDEX NAME)



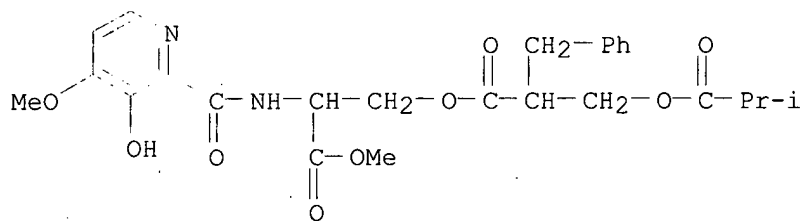
RN . 321599-15-9 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]butanoate] (9CI) (CA INDEX NAME)



RN 321599-16-0 HCAPLUS

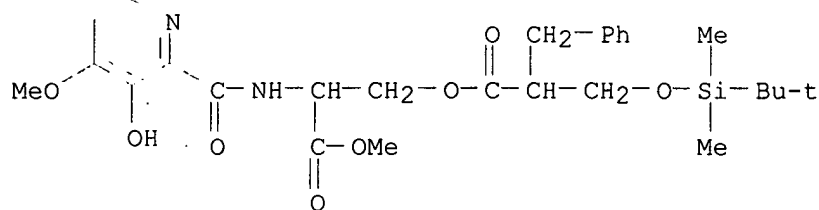
CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[.alpha.-[(2-methyl-1-oxopropoxy)methyl]benzenepropanoate] (9CI) (CA INDEX NAME)



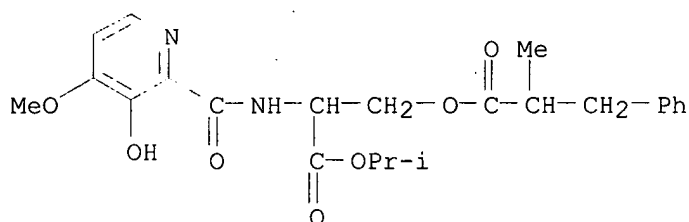
RN 321599-17-1 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[.alpha.-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]benzenepropanoate] (9CI) (CA INDEX NAME)

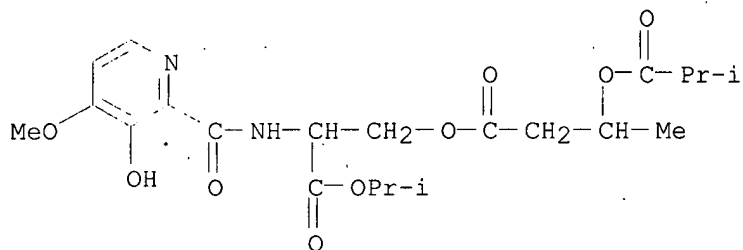




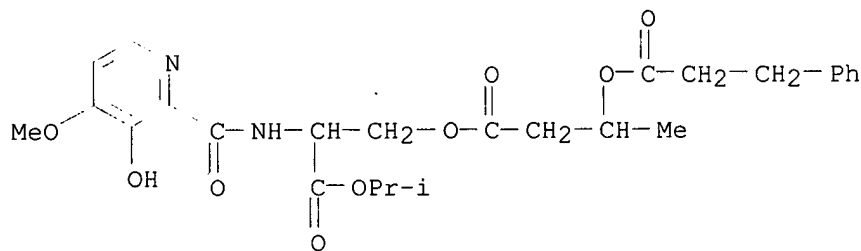
RN 321599-18-2 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-(.alpha.-methylbenzenepropanoate) (9CI) (CA INDEX NAME)



RN 321599-19-3 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[3-(2-methyl-1-oxopropoxy)butanoate] (9CI) (CA INDEX NAME)

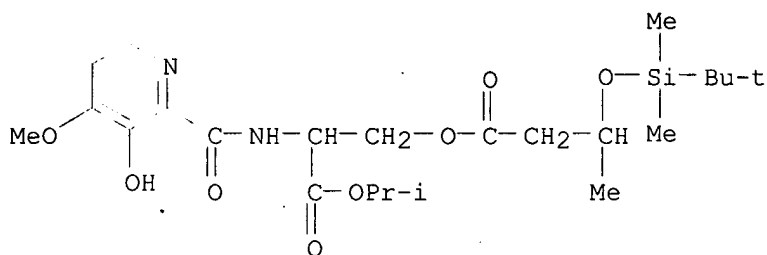


RN 321599-20-6 HCAPLUS  
 CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[3-(1-oxo-3-phenylpropoxy)butanoate] (9CI) (CA INDEX NAME)



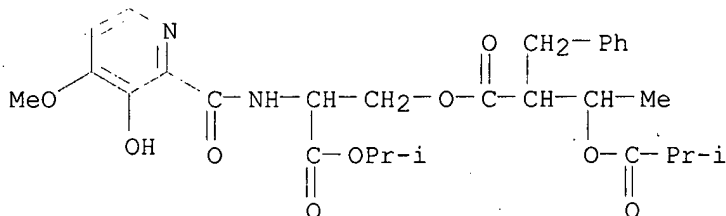
RN 321599-21-7 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]butanoate] (9CI) (CA INDEX NAME)



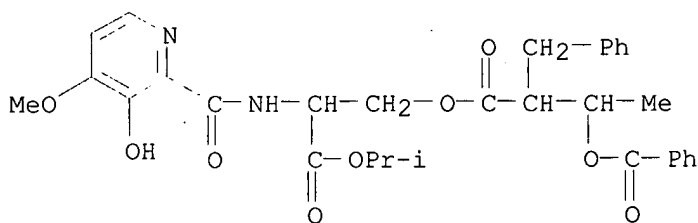
RN 321599-22-8 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[.alpha.-[1-(2-methyl-1-oxopropoxy)ethyl]benzenepropanoate] (9CI) (CA INDEX NAME)



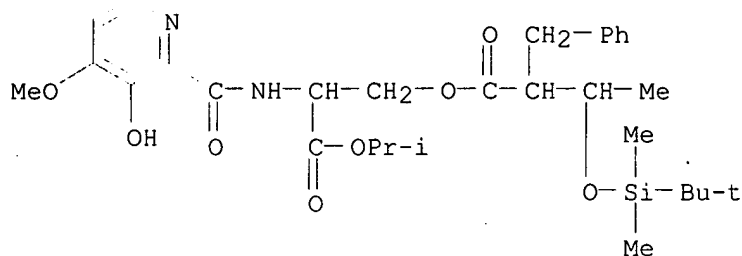
RN 321599-23-9 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 1-methylethyl ester, 3-[.alpha.-[1-(benzoyloxy)ethyl]benzenepropanoate] (9CI) (CA INDEX NAME)



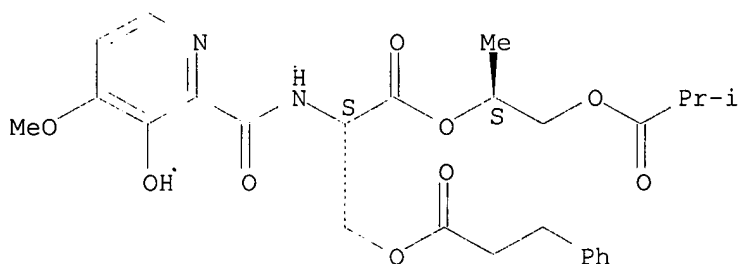
RN 321599-24-0 HCAPLUS

CN Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester, 3-[.alpha.-[1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]benzenepropanoate] (9CI) (CA INDEX NAME)



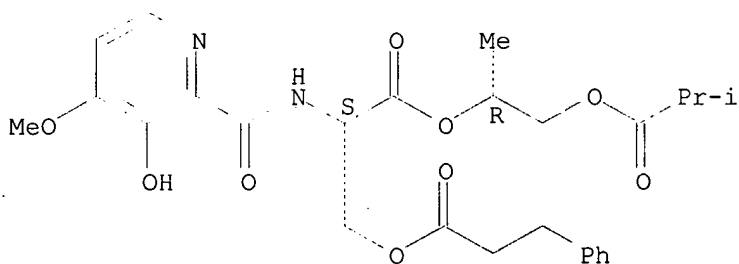
RN 321599-25-1 HCAPLUS  
 CN D-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-,  
 (1R)-1-methyl-2-(2-methyl-1-oxopropoxy)ethyl ester, 3-benzenepropanoate,  
 rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



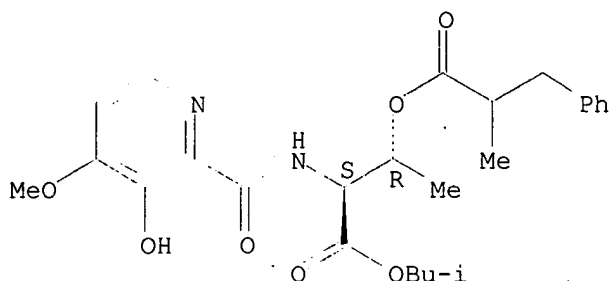
RN 321599-26-2 HCAPLUS  
 CN D-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-,  
 (1S)-1-methyl-2-(2-methyl-1-oxopropoxy)ethyl ester, 3-benzenepropanoate,  
 rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



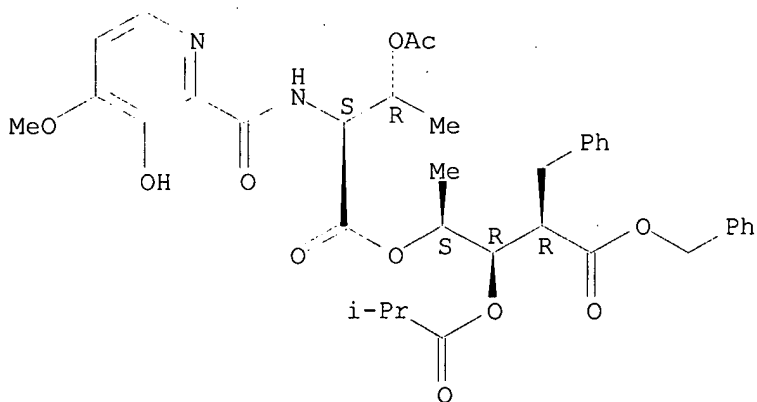
RN 321599-27-3 HCAPLUS  
 CN L-Threonine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-,  
 2-methylpropyl ester, 3-(.alpha.-methylbenzenepropanoate) (9CI) (CA INDEX  
 NAME)

Absolute stereochemistry.

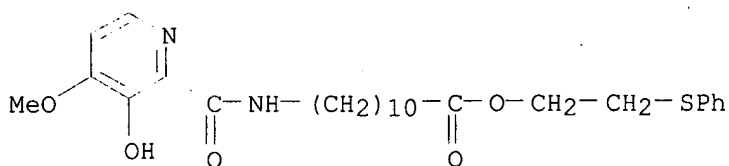


RN 321599-28-4 HCAPLUS  
 CN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, phenylmethyl ester, 3-(2-methylpropanoate), 4-ester with N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-L-threonine acetate (ester) (9CI) (CA INDEX NAME)

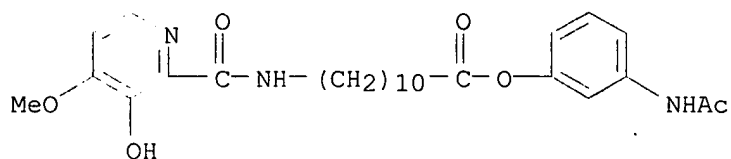
Absolute stereochemistry.



RN 321599-29-5 HCAPLUS  
 CN Undecanoic acid, 11-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 2-(phenylthio)ethyl ester (9CI) (CA INDEX NAME)

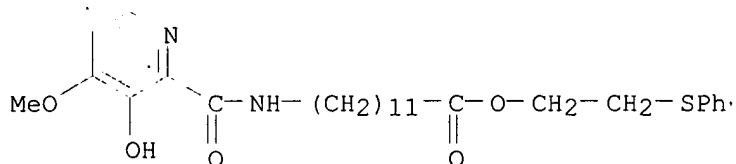


RN 321599-30-8 HCAPLUS  
 CN Undecanoic acid, 11-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-(acetylamino)phenyl ester (9CI) (CA INDEX NAME)



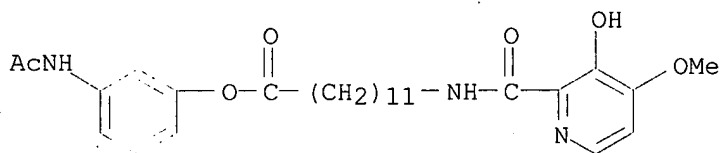
RN 321599-31-9 HCAPLUS

CN Dodecanoic acid, 12-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 2-(phenylthio)ethyl ester (9CI) (CA INDEX NAME)



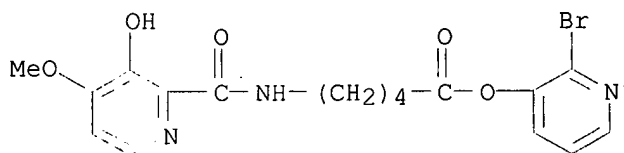
RN 321599-32-0 HCAPLUS

CN Dodecanoic acid, 12-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-(acetylaminophenyl ester (9CI) (CA INDEX NAME)



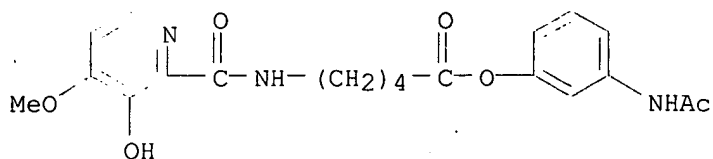
RN 321599-33-1 HCAPLUS

CN Pentanoic acid, 5-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 2-bromo-3-pyridinyl ester (9CI) (CA INDEX NAME)



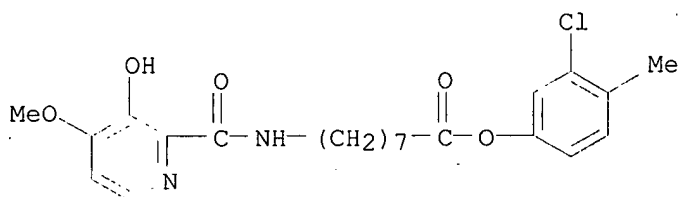
RN 321599-34-2 HCAPLUS

CN Pentanoic acid, 5-[[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-(acetylaminophenyl ester (9CI) (CA INDEX NAME)



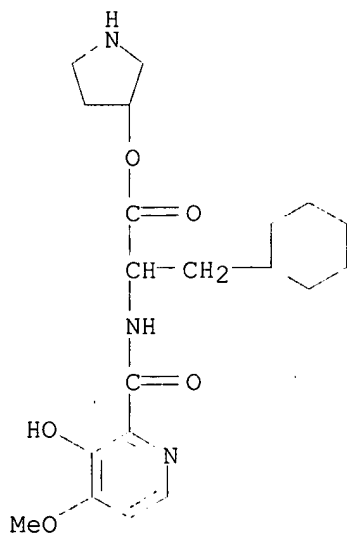
RN 321599-35-3 HCAPLUS

CN Octanoic acid, 8-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-chloro-4-methylphenyl ester (9CI) (CA INDEX NAME)



RN 321599-36-4 HCAPLUS

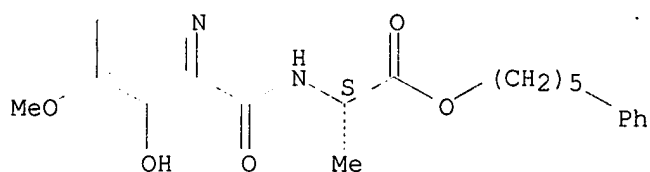
CN Cyclohexanepropanoic acid, .alpha.-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-, 3-pyrrolidinyl ester (9CI) (CA INDEX NAME)



RN 321599-37-5 HCAPLUS

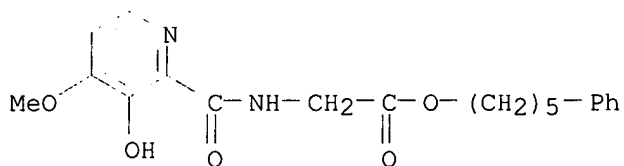
CN L-Alanine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 5-phenylpentyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



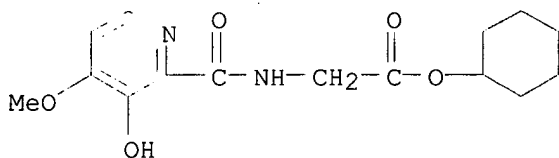
RN 321599-38-6 HCAPLUS

CN Glycine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, 5-phenylpentyl ester (9CI) (CA INDEX NAME)



RN 321599-39-7 HCAPLUS

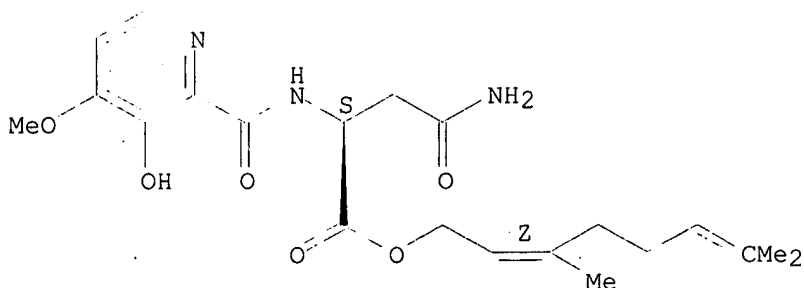
CN Glycine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, cyclohexyl ester (9CI) (CA INDEX NAME)



RN 321599-40-0 HCAPLUS

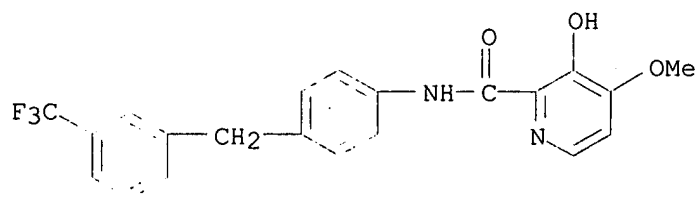
CN L-Asparagine, N2-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, (2Z)-3,7-dimethyl-2,6-octadienyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



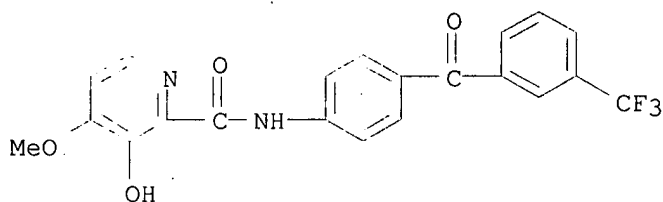
RN 321599-67-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]methyl]phenyl]- (9CI) (CA INDEX NAME)



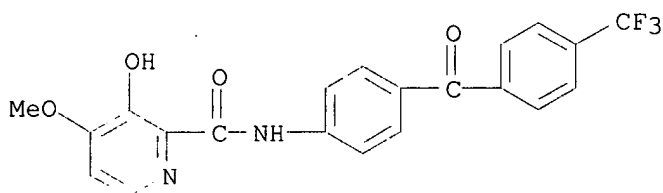
RN 321599-68-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[3-(trifluoromethyl)benzoyl]phenyl]- (9CI) (CA INDEX NAME)



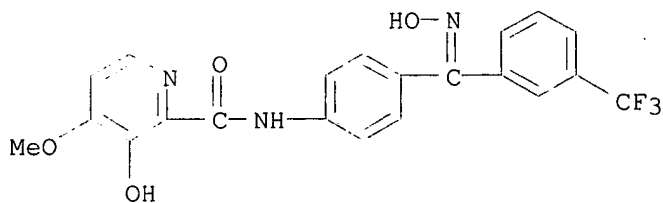
RN 321599-69-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[4-(trifluoromethyl)benzoyl]phenyl]- (9CI) (CA INDEX NAME)



RN 321599-70-6 HCAPLUS

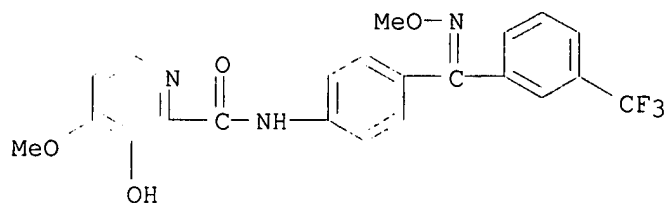
CN 2-Pyridinecarboxamide, 3-hydroxy-N-[4-[(hydroxyimino)[3-(trifluoromethyl)phenyl]methyl]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)



RN 321599-71-7 HCAPLUS

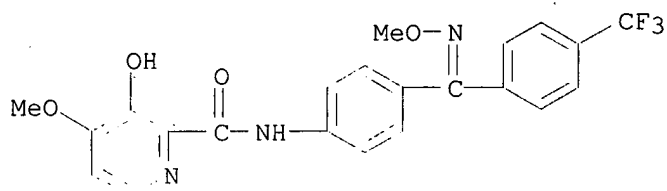
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(methoxyimino)[3-(trifluoromethyl)phenyl]methyl]phenyl]- (9CI) (CA INDEX NAME)





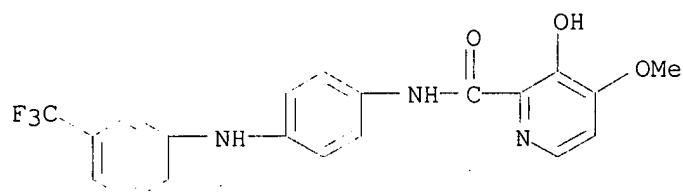
RN 321599-72-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(methoxyimino)[4-(trifluoromethyl)phenyl]methyl]phenyl]- (9CI) (CA INDEX NAME)



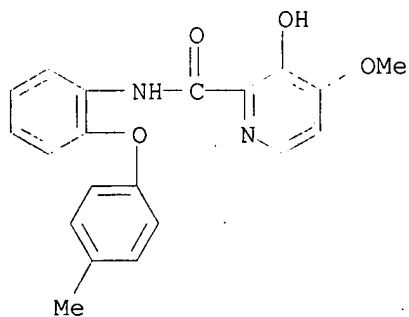
RN 321599-73-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)



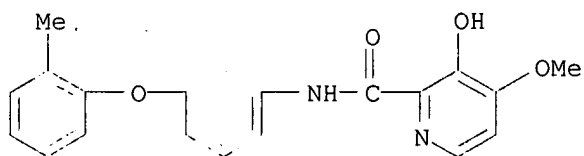
RN 321599-74-0 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[2-(4-methylphenoxy)phenyl]- (9CI) (CA INDEX NAME)



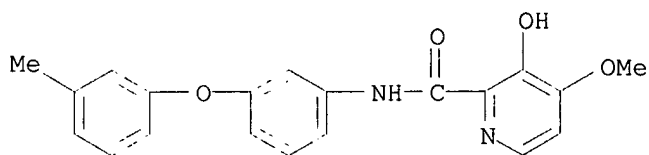
RN 321599-75-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(2-methylphenoxy)phenyl]- (9CI) (CA INDEX NAME)



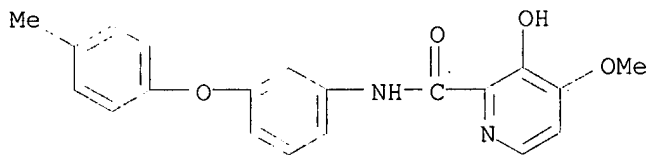
RN 321599-76-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(3-methylphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



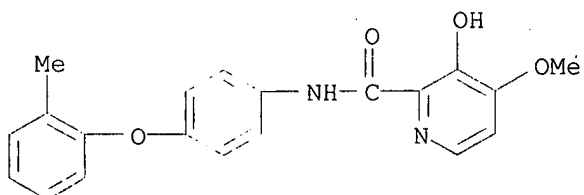
RN 321599-77-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(4-methylphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



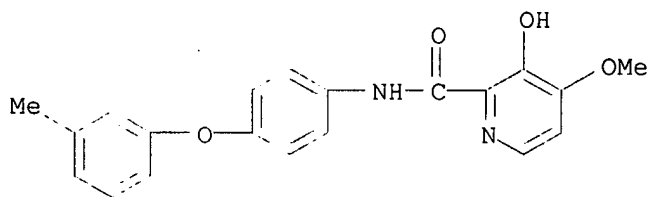
RN 321599-78-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(2-methylphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



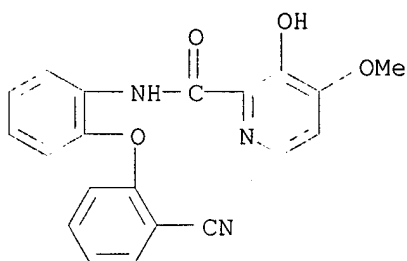
RN 321599-79-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(3-methylphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



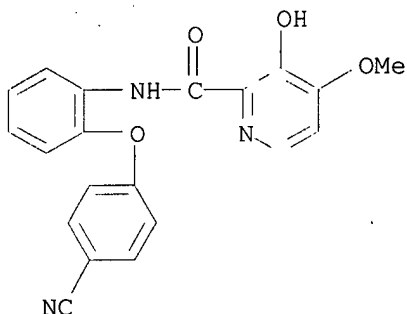
RN 321599-80-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-[2-(2-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



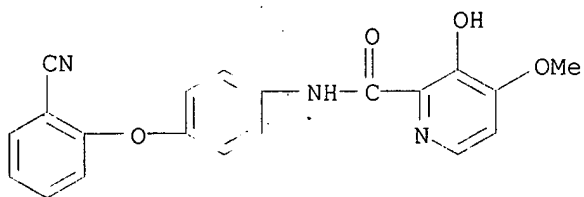
RN 321599-81-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-[2-(4-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



RN 321599-82-0 HCAPLUS

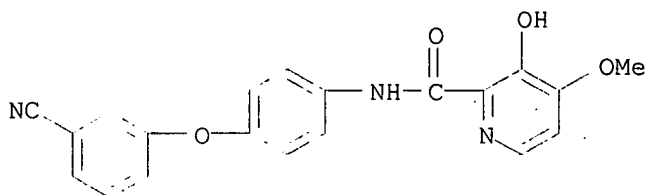
CN 2-Pyridinecarboxamide, N-[4-(2-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



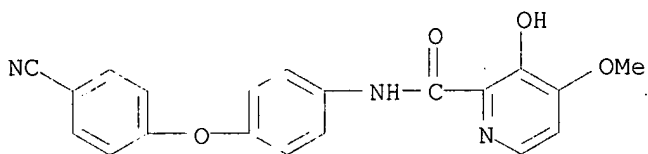
RN 321599-83-1 HCAPLUS

Robinson 09/830,923

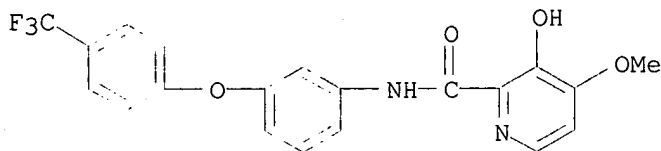
CN 2-Pyridinecarboxamide, N-[4-(3-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



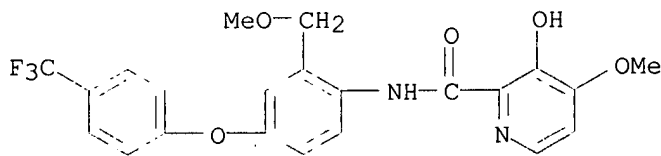
RN 321599-84-2 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(4-cyanophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



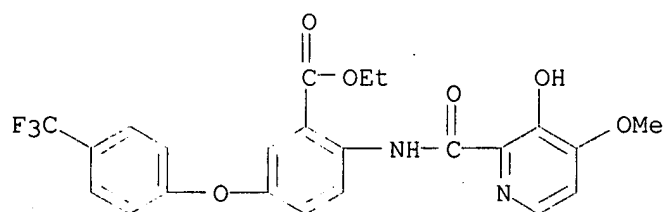
RN 321599-85-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 321599-86-4 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[2-(methoxymethyl)-4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)

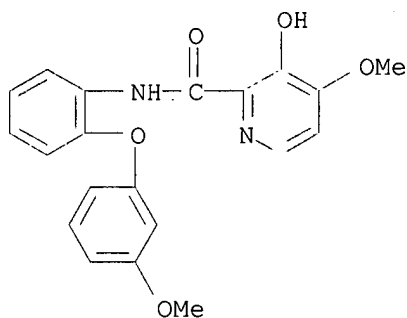


RN 321599-87-5 HCAPLUS  
CN Benzoic acid, 2-[[3-(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-5-[4-(trifluoromethyl)phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)



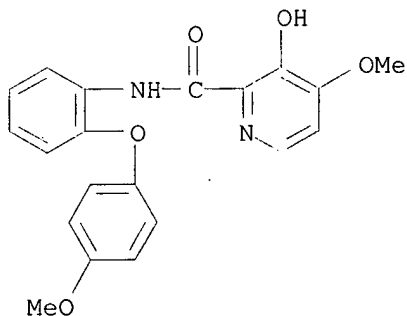
RN 321599-88-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[2-(3-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



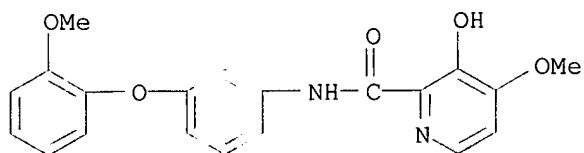
RN 321599-89-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[2-(4-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)

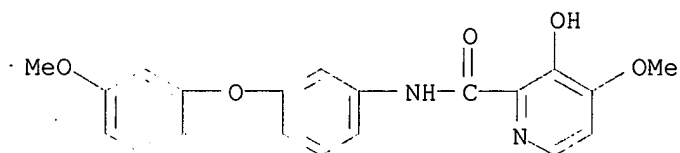


RN 321599-90-0 HCAPLUS

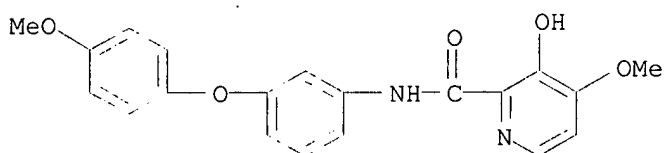
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(2-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



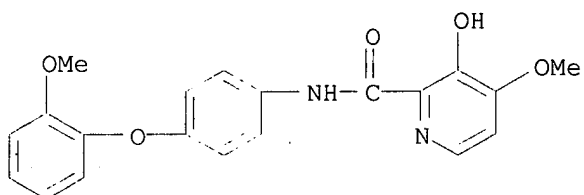
RN 321599-91-1 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(3-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



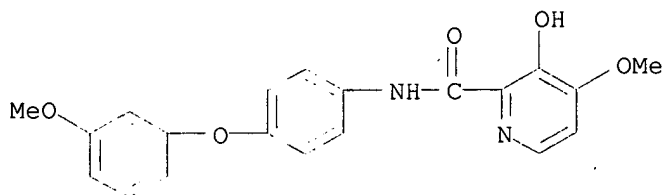
RN 321599-92-2 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-(4-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



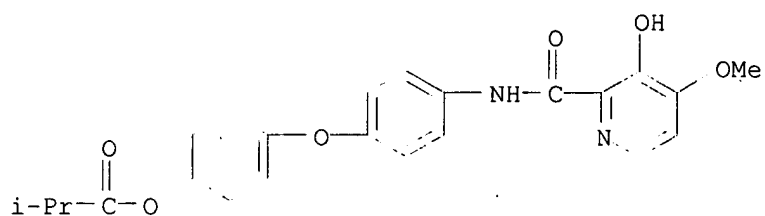
RN 321599-93-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(2-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)



RN 321599-94-4 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(3-methoxyphenoxy)phenyl]-  
(9CI) (CA INDEX NAME)

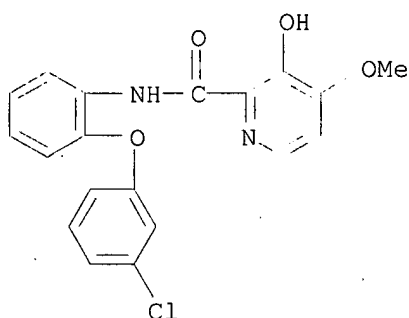


RN 321599-95-5 HCAPLUS  
CN Propanoic acid, 2-methyl-, 4-[4-[[3-(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]phenoxy]phenyl ester (9CI) (CA INDEX NAME)



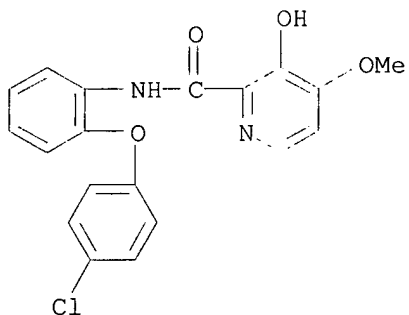
RN 321599-96-6 HCAPLUS

CN 2-Pyridinecarboxamide, N-[2-(3-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



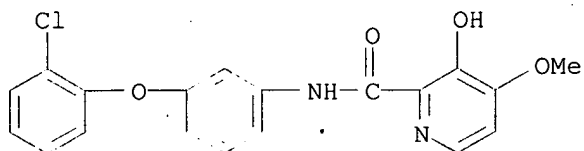
RN 321599-97-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-[2-(4-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)

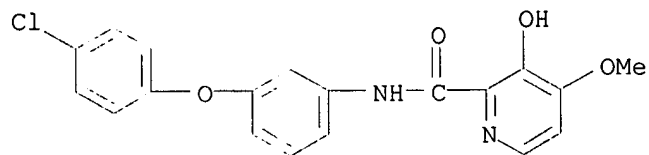


RN 321599-98-8 HCAPLUS

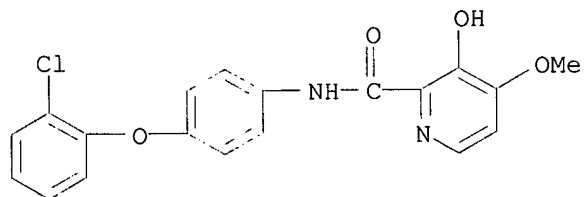
CN 2-Pyridinecarboxamide, N-[3-(2-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



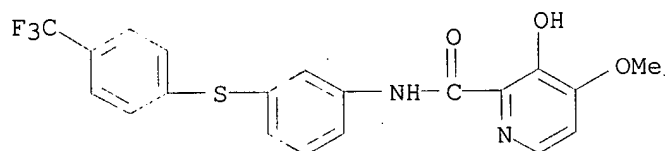
RN 321599-99-9 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[3-(4-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



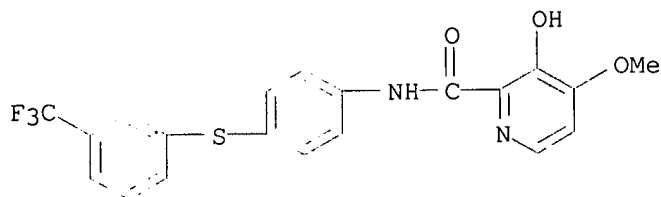
RN 321600-00-4 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[4-(2-chlorophenoxy)phenyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)



RN 321600-01-5 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[[4-(trifluoromethyl)phenyl]thio]phenyl]- (9CI) (CA INDEX NAME)

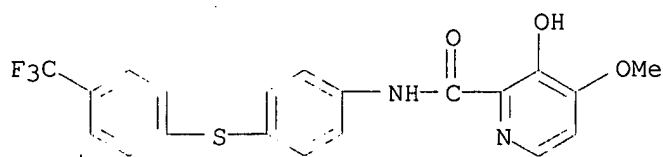


RN 321600-02-6 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]thio]phenyl]- (9CI) (CA INDEX NAME)



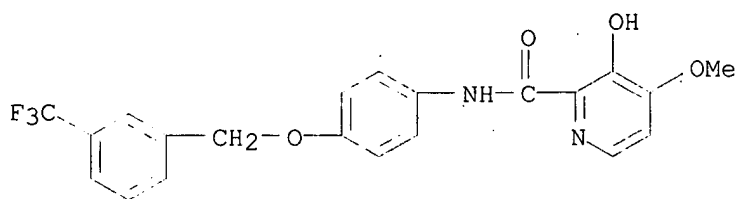
RN 321600-03-7 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[4-(trifluoromethyl)phenyl]thio]phenyl]- (9CI) (CA INDEX NAME)





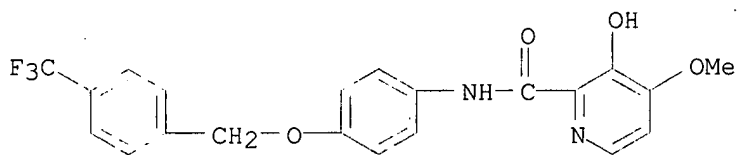
RN 321600-04-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)phenyl]methoxy]phenyl]- (9CI) (CA INDEX NAME)



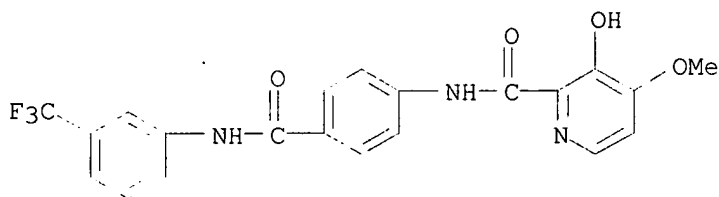
RN 321600-05-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[4-(trifluoromethyl)phenyl]methoxy]phenyl]- (9CI) (CA INDEX NAME)



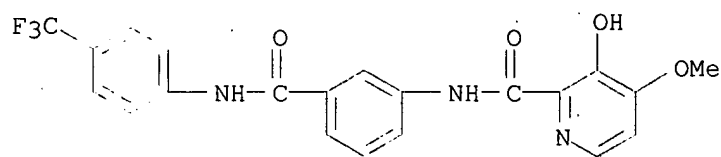
RN 321600-06-0 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]phenyl]- (9CI) (CA INDEX NAME)



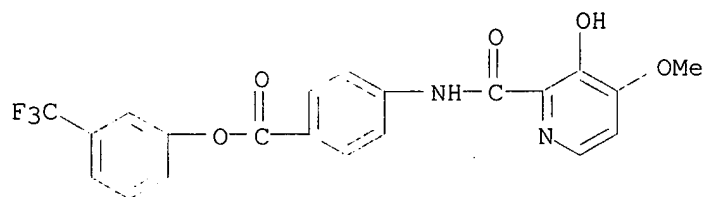
RN 321600-07-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]phenyl]- (9CI) (CA INDEX NAME)



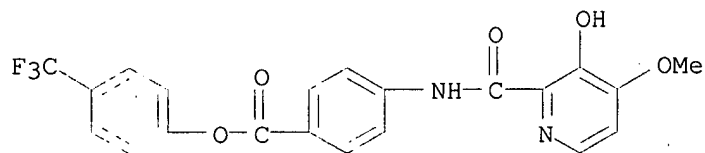
RN 321600-08-2 HCAPLUS

CN Benzoic acid, 4-[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-, 3-(trifluoromethyl)phenyl ester (9CI) (CA INDEX NAME)



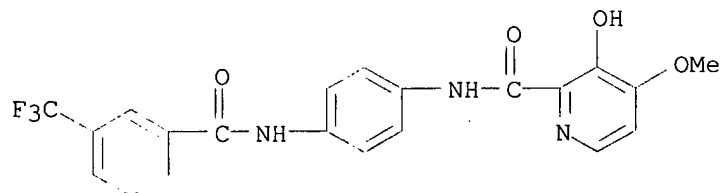
RN 321600-09-3 HCAPLUS

CN Benzoic acid, 4-[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-, 4-(trifluoromethyl)phenyl ester (9CI) (CA INDEX NAME)



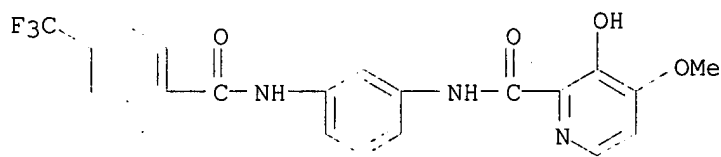
RN 321600-10-6 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[3-(trifluoromethyl)benzoyl]amino]phenyl]- (9CI) (CA INDEX NAME)



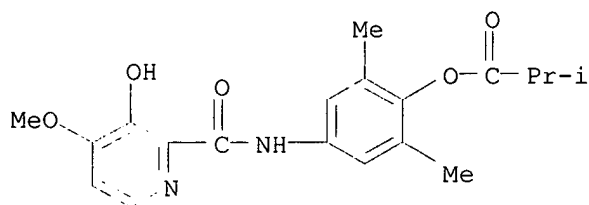
RN 321600-11-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[[4-(trifluoromethyl)benzoyl]amino]phenyl]- (9CI) (CA INDEX NAME)



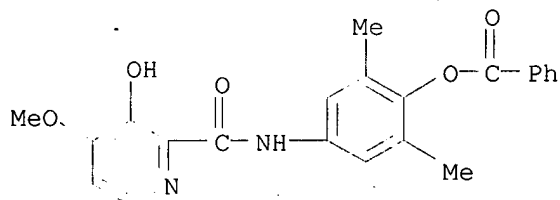
RN 321600-12-8 HCAPLUS

CN Propanoic acid, 2-methyl-, 4-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-2,6-dimethylphenyl ester (9CI) (CA INDEX NAME)



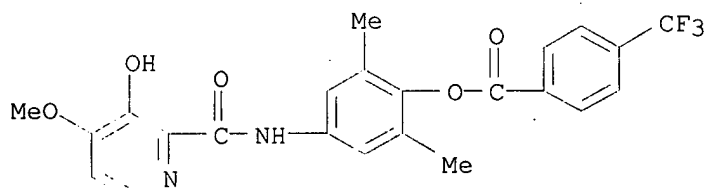
RN 321600-13-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-(benzoyloxy)-3,5-dimethylphenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



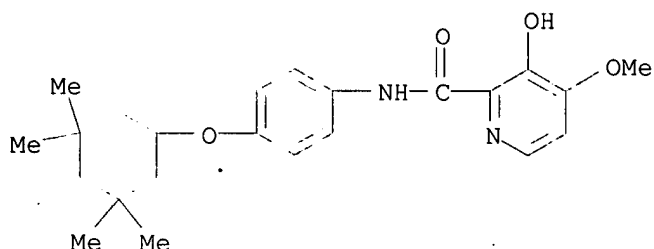
RN 321600-14-0 HCAPLUS

CN Benzoic acid, 4-(trifluoromethyl)-, 4-[[[3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-2,6-dimethylphenyl ester (9CI) (CA INDEX NAME)



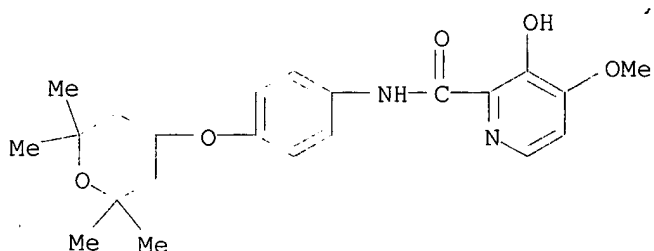
RN 321600-15-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(3,3,5,5-tetramethylcyclohexyl)oxy]phenyl]- (9CI) (CA INDEX NAME)



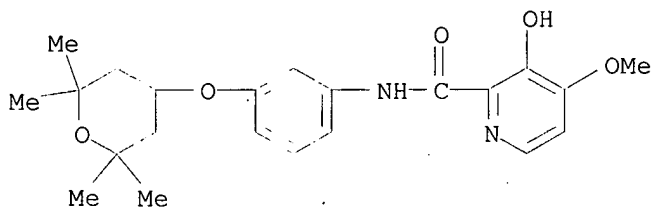
RN 321600-16-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(tetrahydro-2,2,6,6-tetramethyl-2H-pyran-4-yl)oxy]phenyl]- (9CI) (CA INDEX NAME)



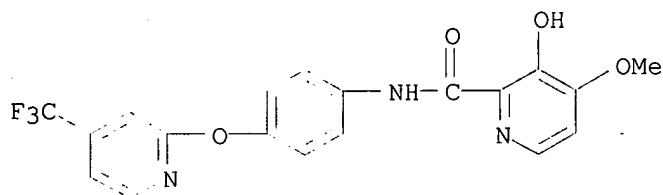
RN 321600-17-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[(tetrahydro-2,2,6,6-tetramethyl-2H-pyran-4-yl)oxy]phenyl]- (9CI) (CA INDEX NAME)



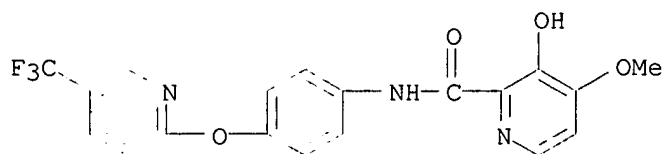
RN 321600-18-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[4-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



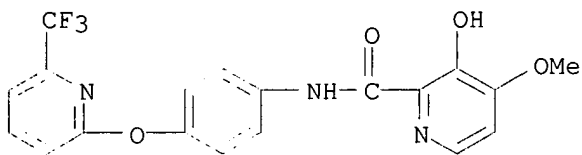
RN 321600-19-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



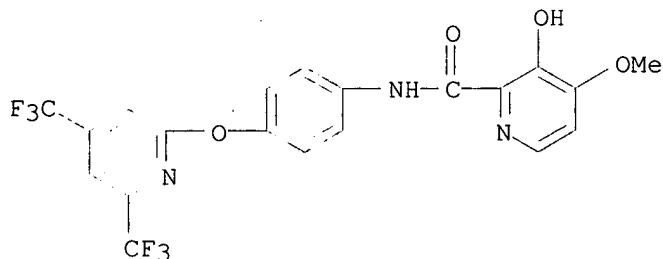
RN 321600-20-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[6-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



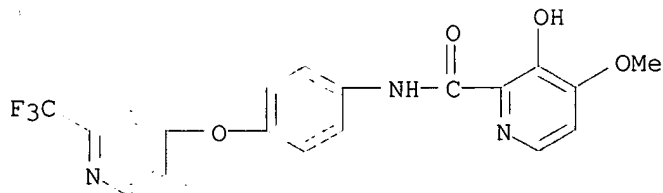
RN 321600-21-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-[[4,6-bis(trifluoromethyl)-2-pyridinyl]oxy]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



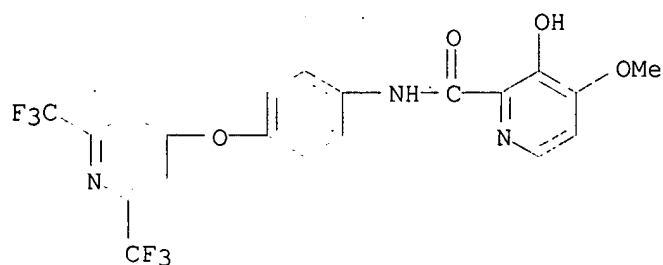
RN 321600-22-0 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[[2-(trifluoromethyl)-4-pyridinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

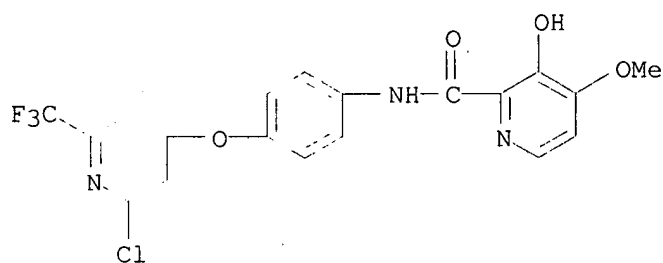


RN 321600-23-1 HCAPLUS

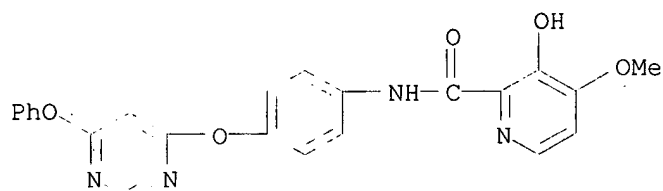
CN 2-Pyridinecarboxamide, N-[4-[[2,6-bis(trifluoromethyl)-4-pyridinyl]oxy]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 321600-24-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[4-[[2-chloro-6-(trifluoromethyl)-4-pyridinyl]oxy]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

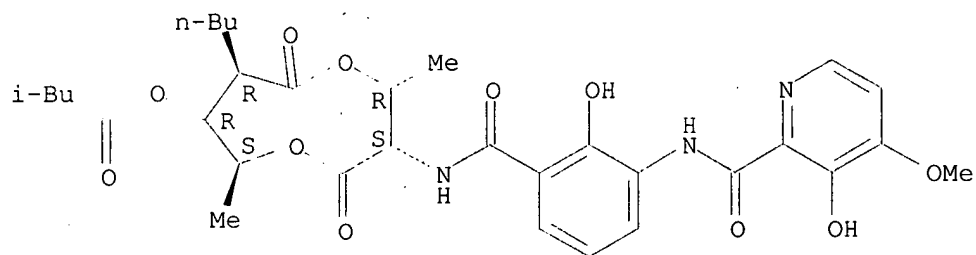


RN 321600-25-3 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[(6-phenoxy-4-pyrimidinyl)oxy]phenyl]- (9CI) (CA INDEX NAME)



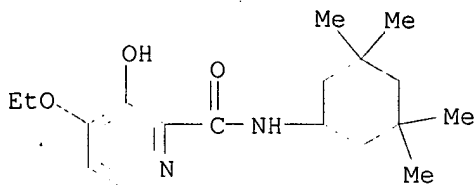
RN 321600-30-0 HCAPLUS  
 CN Butanoic acid, 3-methyl-, (2R,3S,6S,7R,8R)-8-butyl-3-[[2-hydroxy-3-[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]benzoyl]amino]-2,6-dimethyl-4,9-dioxo-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



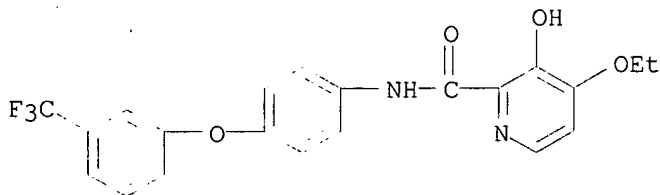
RN

CN



RN

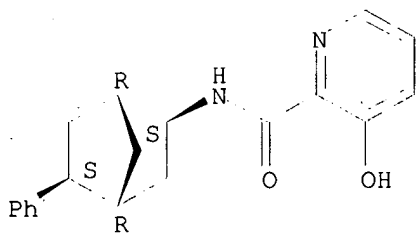
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RN

CN

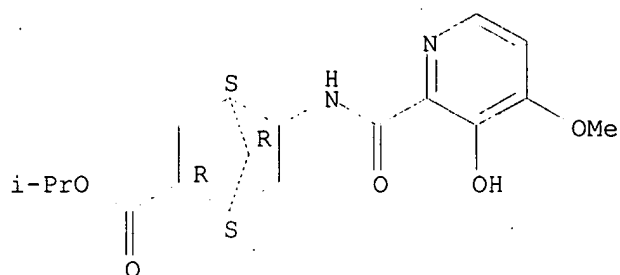
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RN

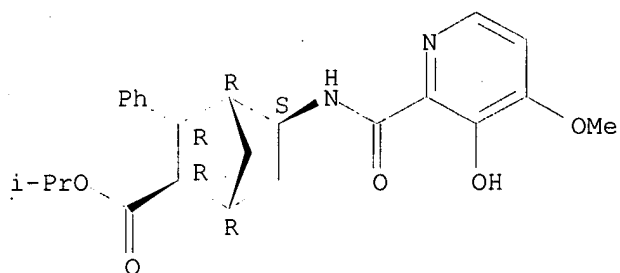
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Re



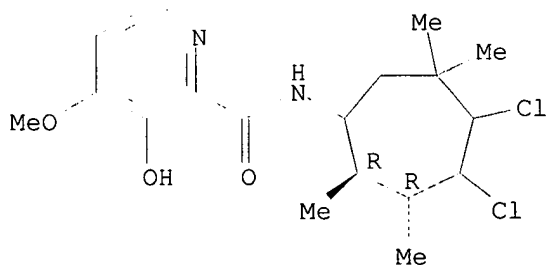
RN 321601-52-9 HCAPLUS  
 CN Bicyclo[2.2.1]heptane-2-carboxylic acid, 5-[[3-hydroxy-4-methoxy-2-pyridinyl]carbonyl]amino]-3-phenyl-, 1-methylethyl ester, (1R,2R,3R,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



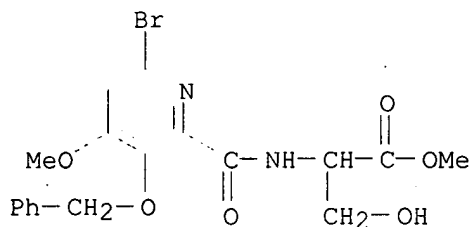
RN 321744-54-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[(2R,3R)-4,5-dichloro-2,3,6,6-tetramethylcycloheptyl]-3-hydroxy-4-methoxy-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

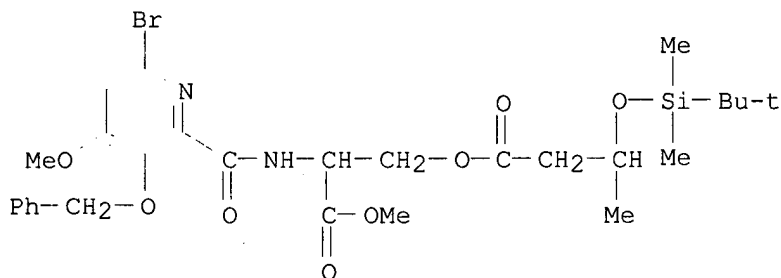


IT 321601-42-7 321601-43-8 321601-44-9  
 321601-45-0 321601-46-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. and fungicidal activity of heterocyclic arom. amides)  
 RN 321601-42-7 HCAPLUS  
 CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

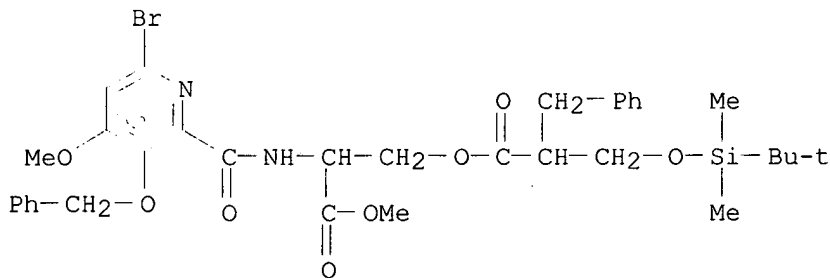




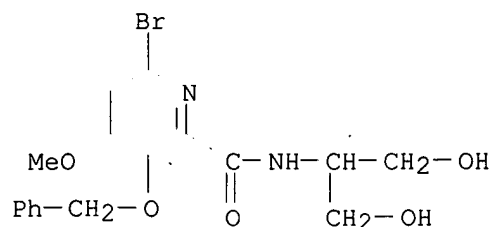
RN 321601-43-8 HCAPLUS  
 CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, methyl ester, 3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]butanoate (ester) (9CI) (CA INDEX NAME)



RN 321601-44-9 HCAPLUS  
 CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, methyl ester, .alpha.-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]benzoyl neopropoate (ester) (9CI) (CA INDEX NAME)

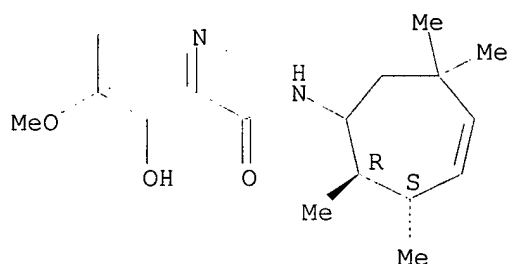


RN 321601-45-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 6-bromo-N-[2-hydroxy-1-(hydroxymethyl)ethyl]-4-methoxy-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)

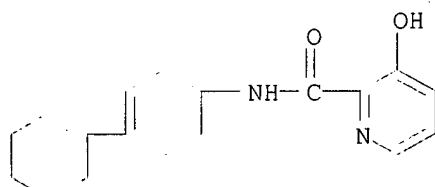


RN 321601-46-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(2R,3S)-2,3,6,6-tetramethyl-4-cyclohepten-1-yl]-, rel- (9CI) (CA INDEX NAME)

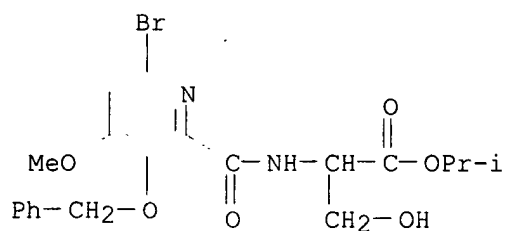
Relative stereochemistry.



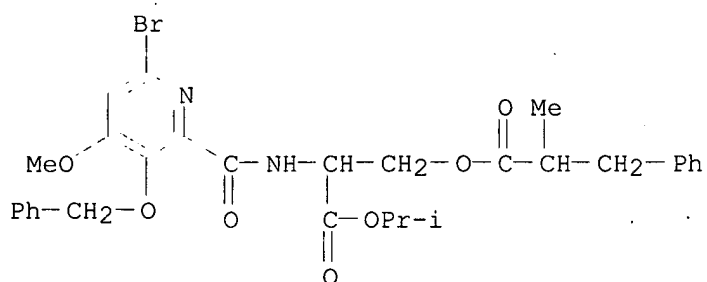
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 321597-72-2P 321597-73-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and fungicidal activity of heterocyclic arom. amides)  
 RN 321597-60-8 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(4-cyclohexylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



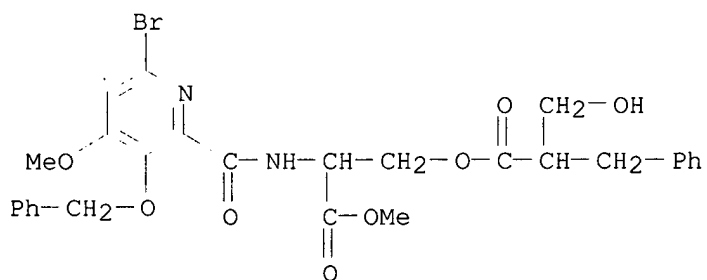
RN 321597-61-9 HCAPLUS  
 CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 321597-62-0 HCAPLUS  
 CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, 1-methylethyl ester, .alpha.-methylbenzenepropanoate (ester) (9CI) (CA INDEX NAME)



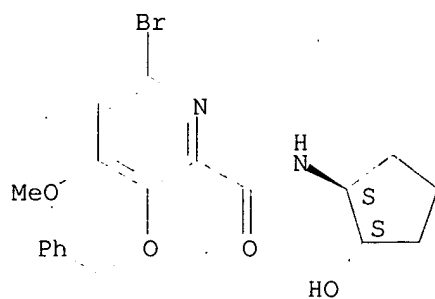
RN 321597-63-1 HCAPLUS  
 CN Serine, N-[[6-bromo-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]-, methyl ester, .alpha.-(hydroxymethyl)benzenepropanoate (ester) (9CI) (CA INDEX NAME)



RN 321597-64-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, 6-bromo-N-[(1S,2S)-2-hydroxycyclopentyl]-4-methoxy-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

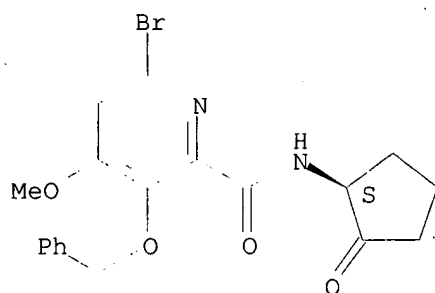
Robinson 09/830,923



RN 321597-65-3 HCAPLUS

CN 2-Pyridinecarboxamide, 6-bromo-4-methoxy-N-[(1S)-2-oxocyclopentyl]-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)

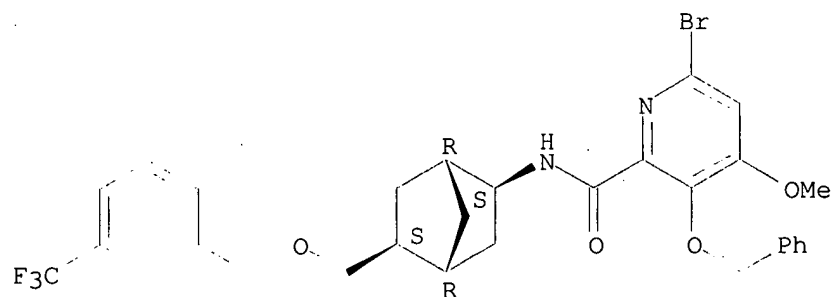
Absolute stereochemistry.



RN 321597-72-2 HCAPLUS

CN 2-Pyridinecarboxamide, 6-bromo-4-methoxy-3-(phenylmethoxy)-N-[(1R,2S,4R,5S)-5-[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

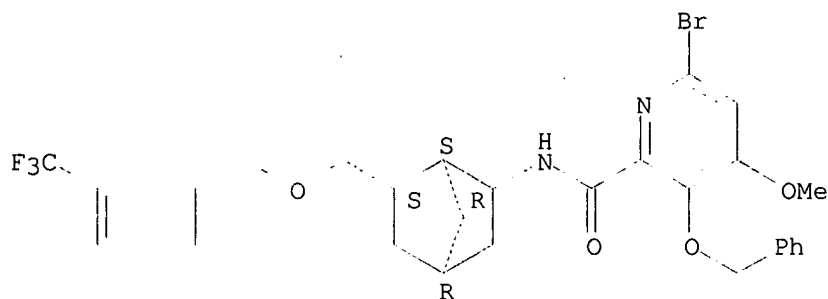
Relative stereochemistry.



RN 321597-73-3 HCAPLUS

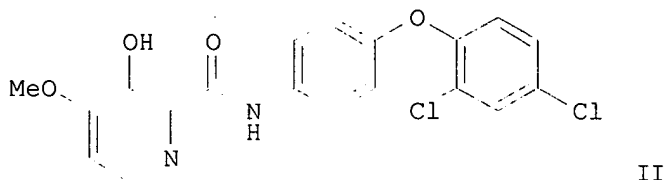
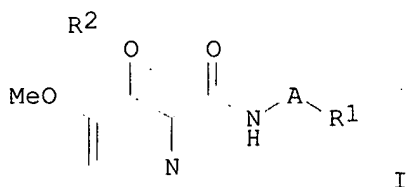
CN 2-Pyridinecarboxamide, 6-bromo-4-methoxy-3-(phenylmethoxy)-N-[(1R,2S,4S,6R)-6-[[3-(trifluoromethyl)phenyl]methoxy]methyl]bicyclo[2.2.1]hept-2-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L30 ANSWER 10 OF 23 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:900620 HCAPLUS  
 DOCUMENT NUMBER: 134:56577  
 TITLE: Pyridinecarboxamides and their use as plant protection agents  
 INVENTOR(S): Backhaus, Dirk; Jordan, Stephan; Boie, Christiane; Schneider, Udo; Gayer, Herbert; Vaupel, Martin; Mauler-Machnik, Astrid; Wachendorff-Neumann, Ulrike; Kuck, Karl-Heinz  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: PCT Int. Appl., 63 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076979	A1	20001221	WO 2000-EP4870	20000529
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19958166	A1	20001214	DE 1999-19958166	19991202
PRIORITY APPLN. INFO.:			DE 1999-19926174 A	19990609
			DE 1999-19958166 A	19991202
OTHER SOURCE(S):			MARPAT 134:56577	
GI				



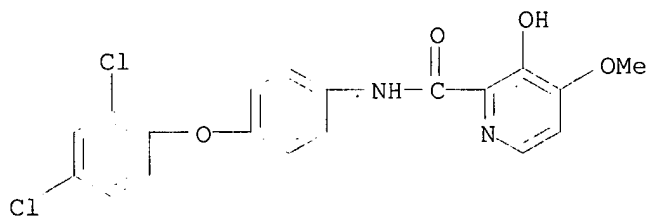
AB Pyridinecarboxamides I [A = bond, (un)substituted alkylene, heteroalkylene; R1 = (un)substituted cycloalkyl, cycloalkenyl, aryl, heterocyclyl; R2 = H, acyl, alkoxycarbonyl] were prep'd. for use as agricultural **fungicides**. Thus, the amide II was obtained by amidation. II was .gtoreq.91% effective against Botrytis on beans at 500 g/ha.

IT 313643-52-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(prepn. of pyridinecarboxamides as agricultural **fungicides**)

RN 313643-52-6 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-(2,4-dichlorophenoxy)phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



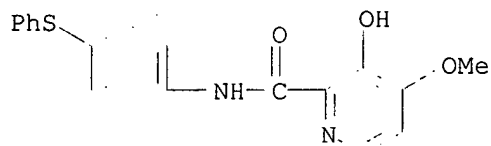
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RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of pyridinecarboxamides as agricultural **fungicides**)

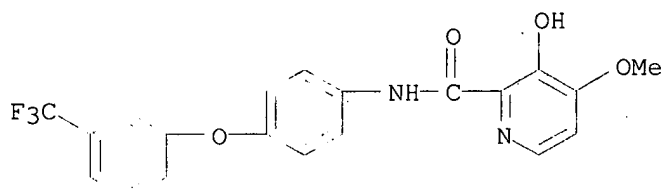
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CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(phenylthio)phenyl]- (9CI)  
 (CA INDEX NAME)



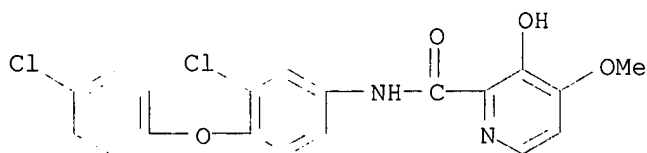
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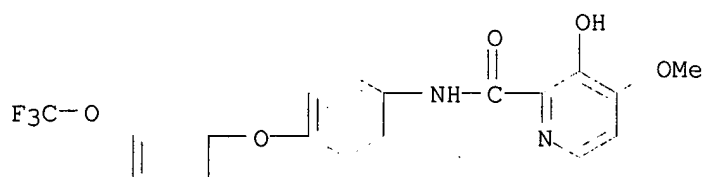
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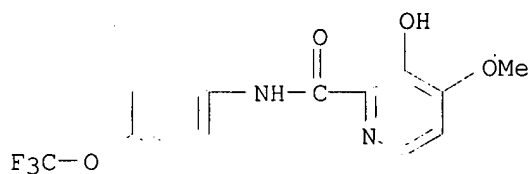


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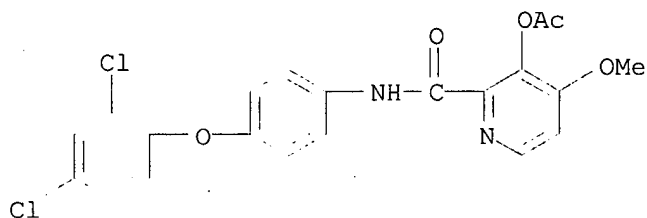
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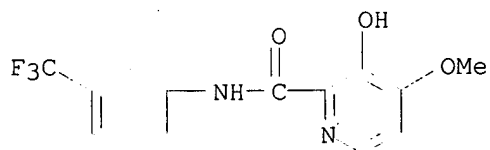
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RN 313643-53-7 HCAPLUS  
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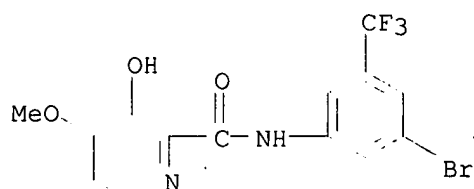


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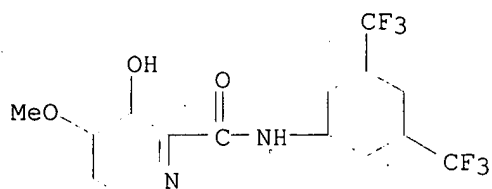


RN 313643-55-9 HCAPLUS  
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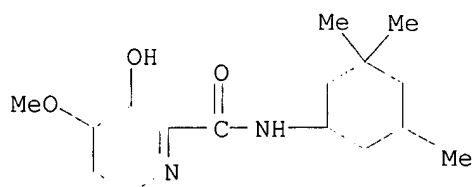




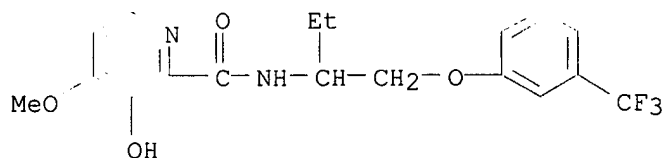
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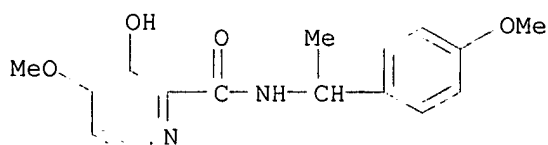
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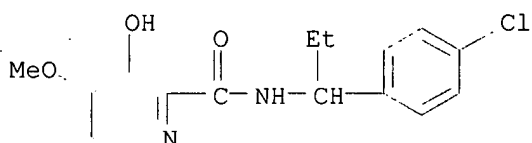
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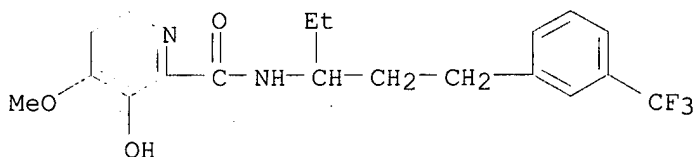
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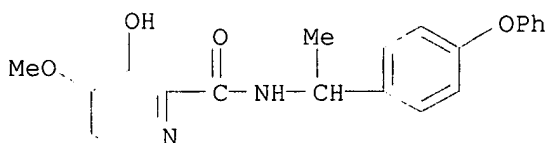
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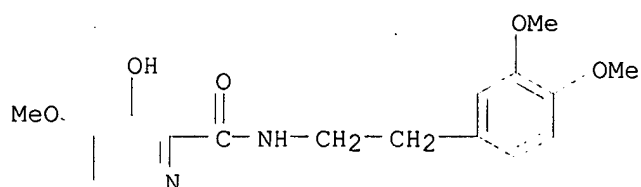
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RN 313643-62-8 HCAPLUS  
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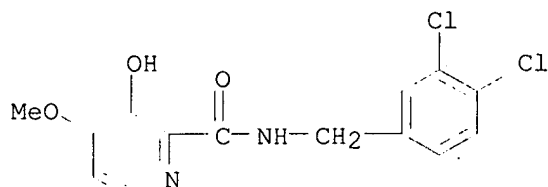


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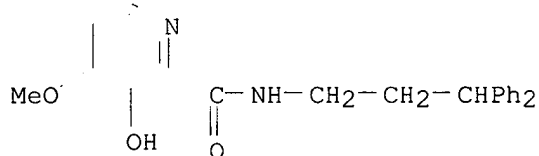
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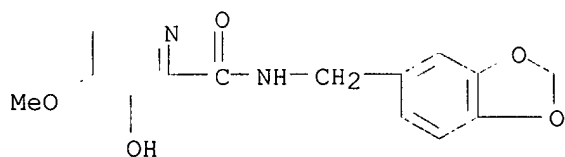
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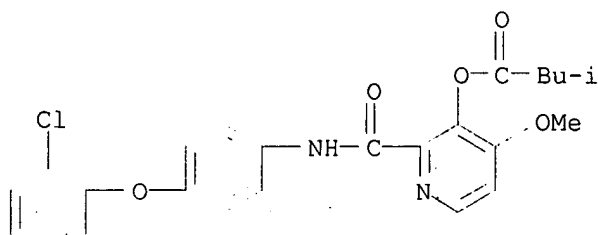
RN 313643-66-2 HCAPLUS

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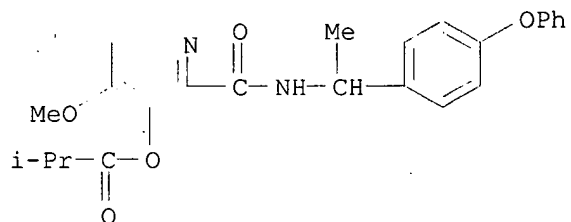
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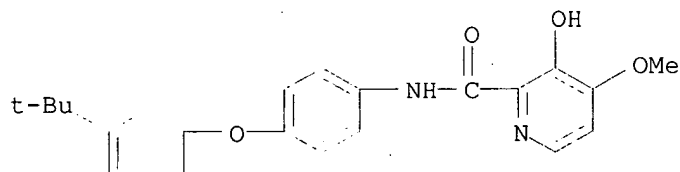
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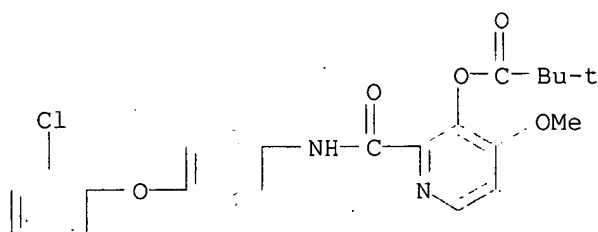
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CN 2-Pyridinecarboxamide, N-[4-[3-(1,1-dimethylethyl)phenoxy]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 313643-70-8 HCAPLUS

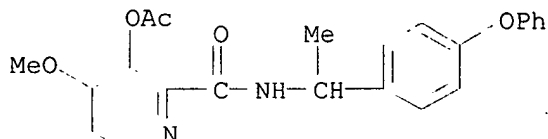
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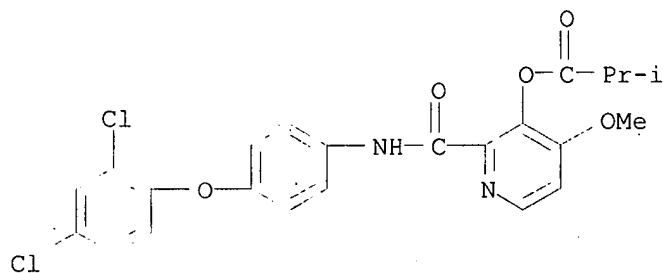
RN 313643-71-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[1-(4-phenoxyphenyl)ethyl]- (9CI) (CA INDEX NAME)



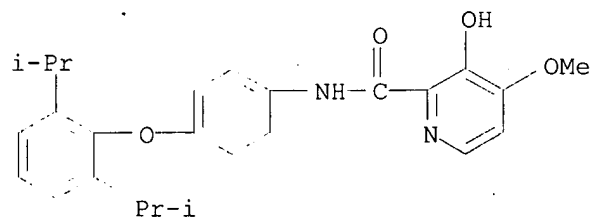
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CN Propanoic acid, 2-methyl-, 2-[[[4-(2,4-dichlorophenoxy)phenyl]amino]carbonyl]-4-methoxy-3-pyridinyl ester (9CI) (CA INDEX NAME)



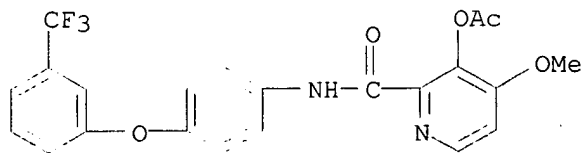
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CN 2-Pyridinecarboxamide, N-[4-[2,6-bis(1-methylethyl)phenoxy]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 313643-74-2 HCAPLUS

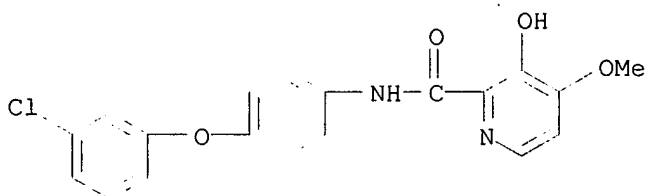
CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[4-[3-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



Robinson 09/830,923

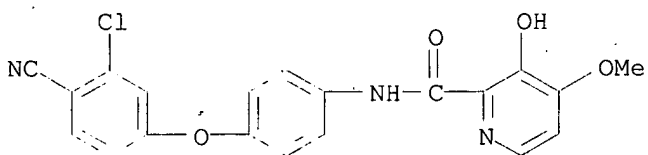
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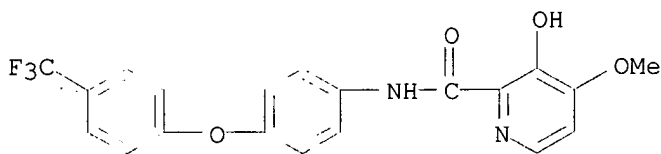
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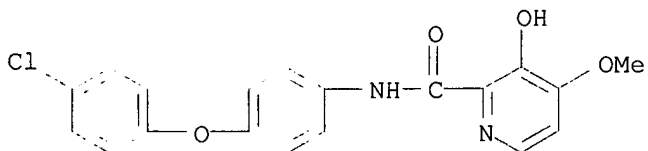
RN 313643-77-5 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[4-(trifluoromethyl)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



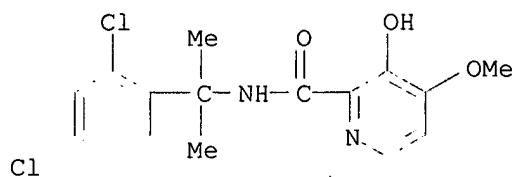
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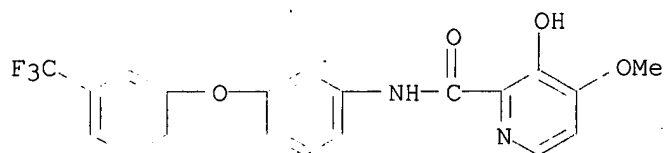


RN 313643-79-7 HCAPLUS

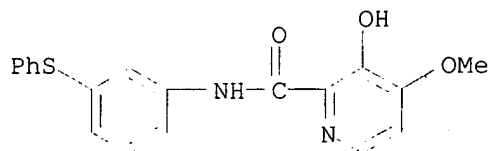
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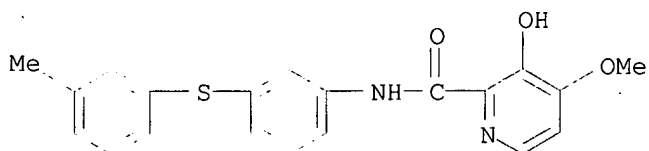
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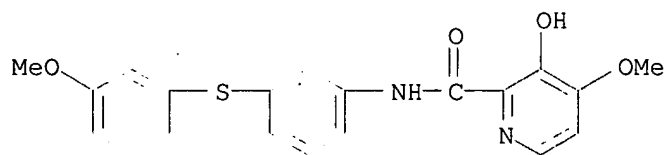
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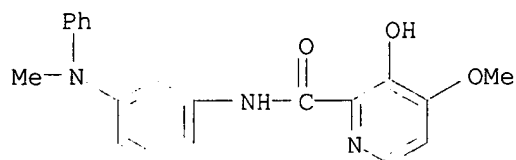


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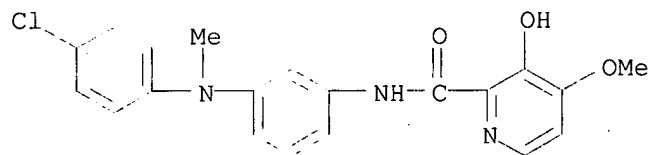
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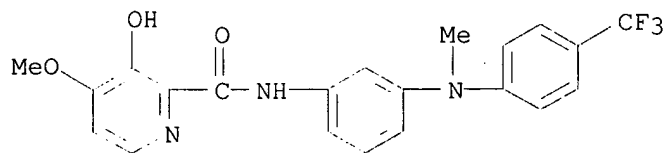
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CN 2-Pyridinecarboxamide, N-[3-[(4-chlorophenyl)methylamino]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 313643-86-6 HCAPLUS

CN 2-Pyridinecarboxamide, N-[3-[methyl[4-(trifluoromethyl)phenyl]amino]phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

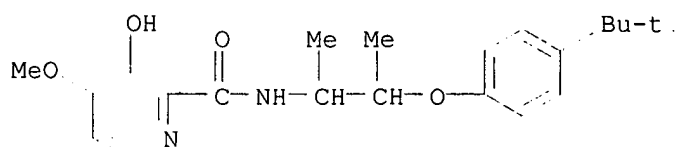


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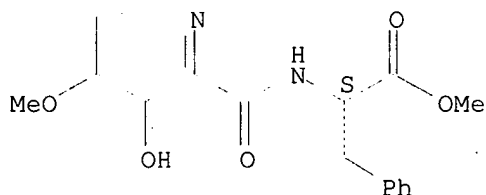
Robinson 09/830,923



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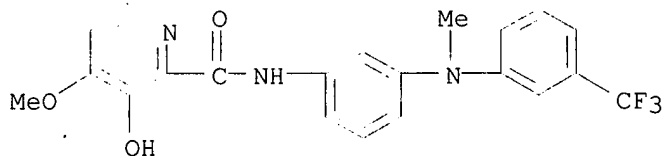
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Absolute stereochemistry.



RN 313643-89-9 HCAPLUS

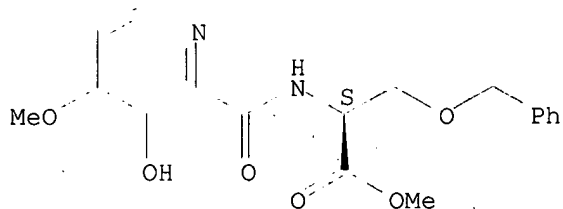
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[3-[methyl[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 313643-90-2 HCAPLUS

CN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

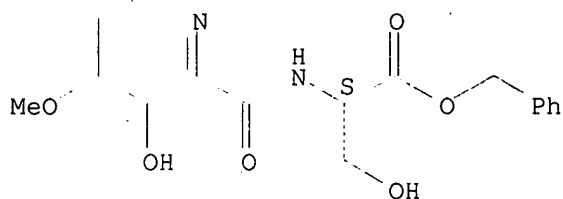
Absolute stereochemistry.



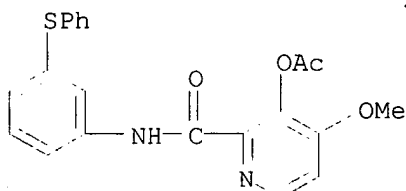
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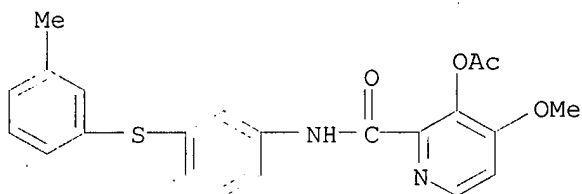
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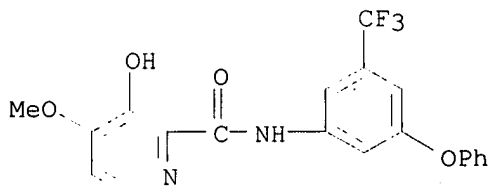
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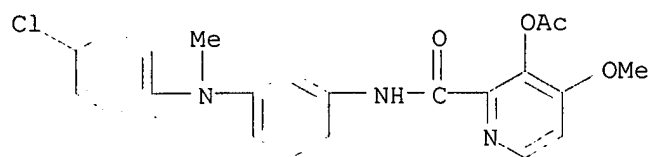
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RN 313643-94-6 HCAPLUS  
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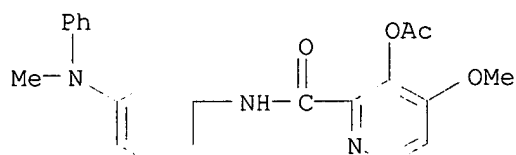


RN 313643-95-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-(acetyloxy)-N-[3-[(4-chlorophenyl)methylamino]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)



RN 313643-96-8 HCAPLUS

CN: 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[3-(methylphenylamino)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 11 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:314676 HCAPLUS

DOCUMENT NUMBER: 132:334362

TITLE: Preparation of picolinamide derivatives and **pest controllers** containing the same as the active ingredient

INVENTOR(S): Imamura, Keiichi; Mitomo, Kouichi; Yamada, Natsuko; Yamamoto, Kazumi; Teraoka, Takeshi; Sakanaka, Osamu; Kurihara, Hiroshi; Taniguchi, Makoto

PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan

SOURCE: PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

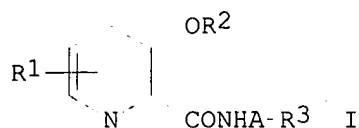
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1134214	A1	20010919	EP 1999-954375	19991104
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRIORITY APPLN. INFO.:			JP 1998-313688	A 19981104
			WO 1999-JP6142	W 19991104

OTHER SOURCE(S):  
GI

MARPAT 132:334362



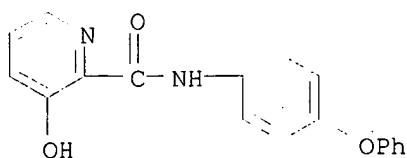
AB Described are novel compds. of general formula [I; wherein A is a bond or optionally substituted alkylene; R1 is one or more groups which may be the same or different from each other and are selected from among hydrogen, alkoxy and haloalkoxy; R2 is hydrogen, (substituted) benzyl, (substituted) alkyl or (substituted) alkanoyl; and R3 is hydrogen, (substituted) cycloalkyl, (substituted) cycloalkenyl, (substituted) aryl, or a (substituted) heterocyclic group, with the proviso that the cases wherein R1 is hydrogen, A is a free valency or methylene, and R3 is Ph or cyclohexyl or those wherein A is alkylene and R3 is hydrogen are excepted.], **pest controllers** such as **plant fungicides, insecticides, and herbicides** contg. the same; and a process for the prepn. of the compds. Thus, a soln. of 1.85 g 4-phenoxyaniline in 25 mL DMF was added dropwise to a suspension of 1.39 g 3-hydroxypicolinic acid, 1.95 g carbonyl diimidazole, and 30 mL DMF and stirred overnight to give 41% 3-hydroxy-4'-phenoxy-picolinanilide (II). II at 100 ppm protected 80-100% rice seedlings against *Pyricularia oryzae*.

IT 267415-52-1P 267415-53-2P 267415-54-3P  
 267415-55-4P 267415-56-5P 267415-57-6P  
 267415-58-7P 267415-59-8P 267415-60-1P  
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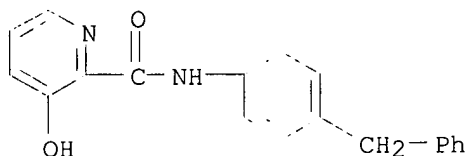
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 267416-71-7P 267416-72-8P 267416-75-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of picolinamide derivs. as **pest controllers**)

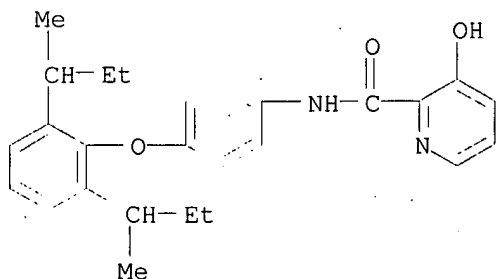
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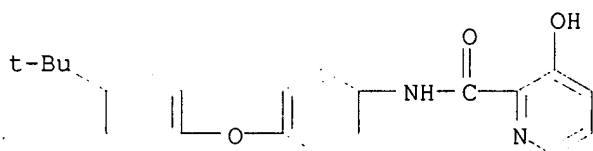
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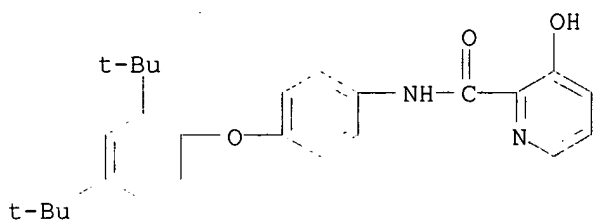


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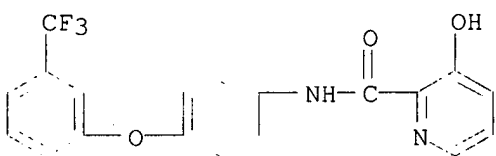
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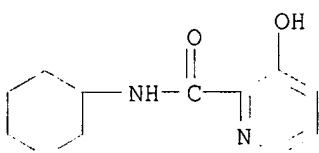
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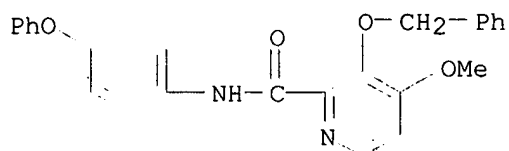
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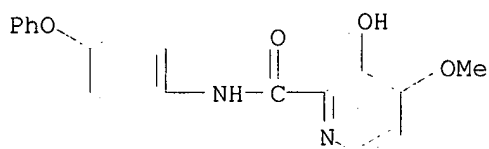
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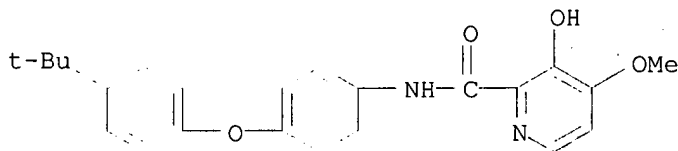
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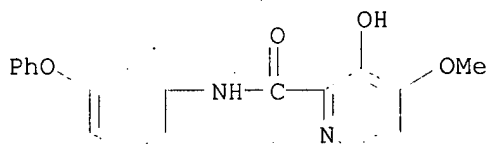
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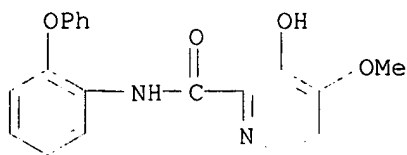
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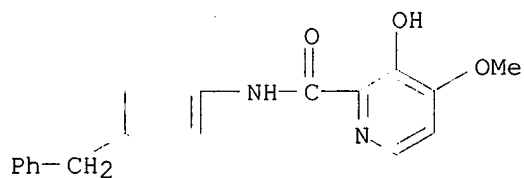


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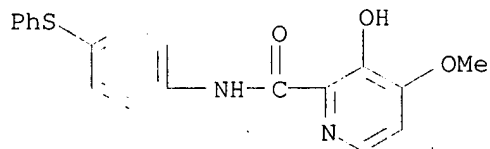
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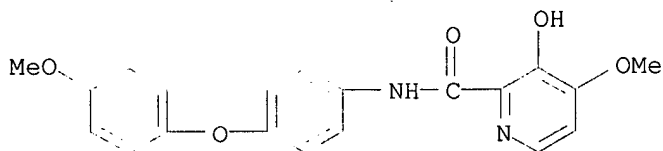
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 (9CI) (CA INDEX NAME)



RN 267415-65-6 HCAPLUS  
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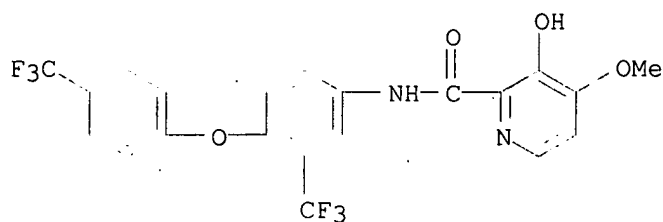


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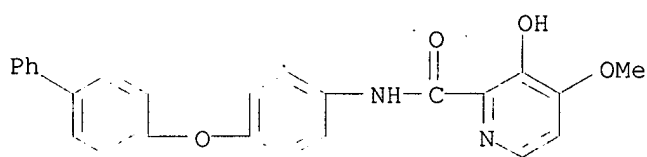


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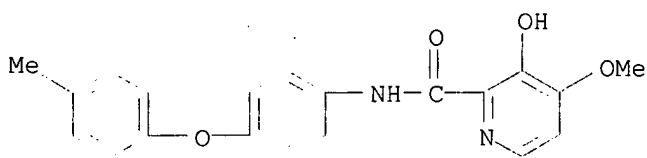




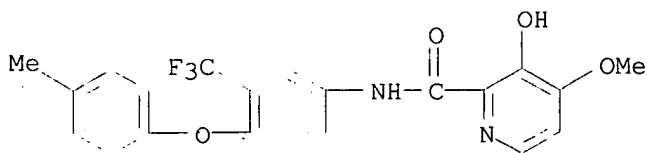
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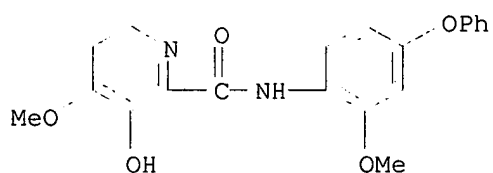
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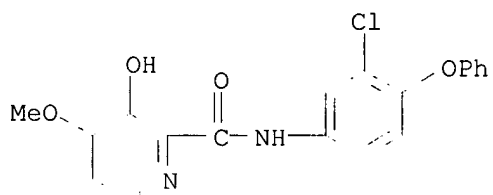
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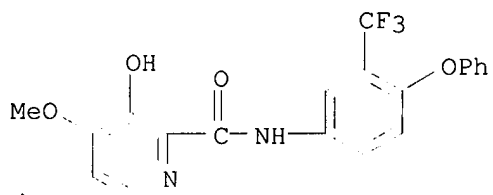
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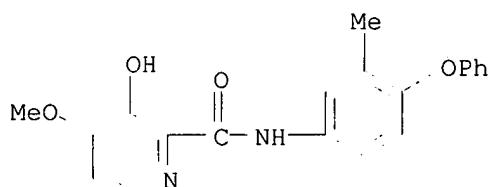
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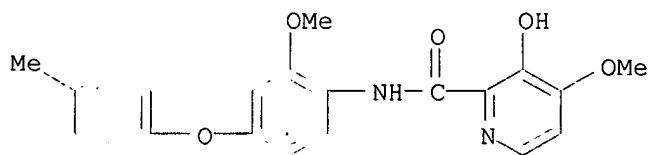
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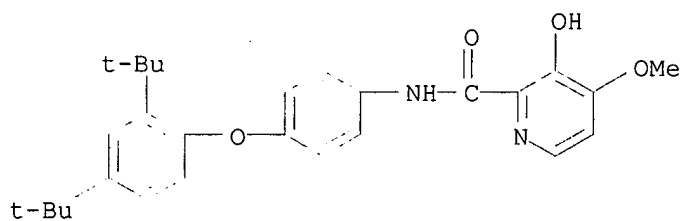
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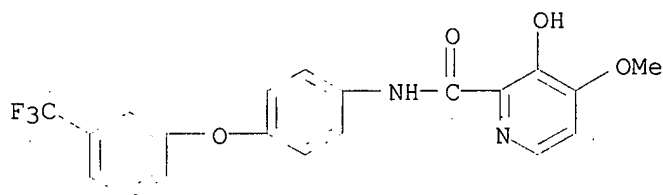
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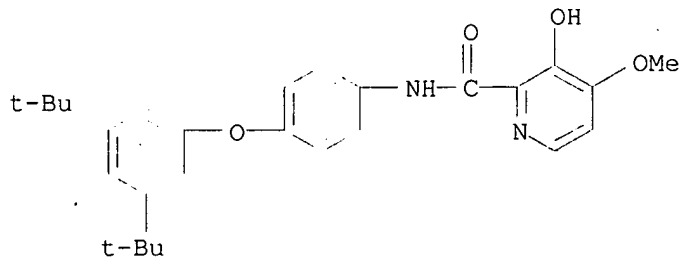
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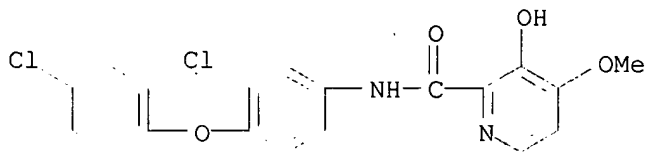


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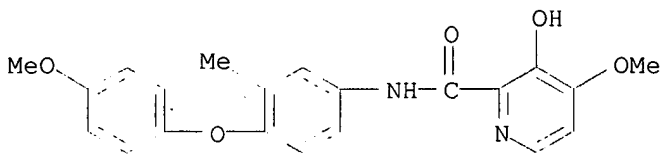
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Robinson 09/830,923



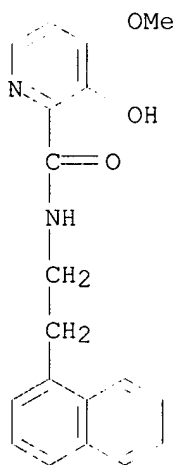
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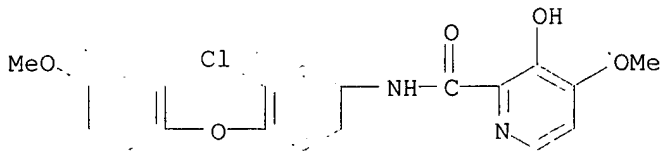
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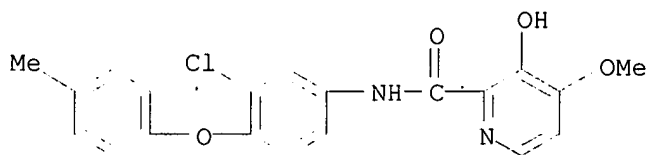
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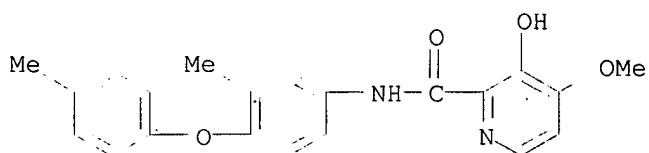
Robinson 09/830,923

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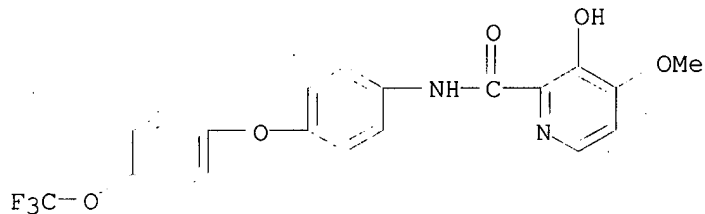
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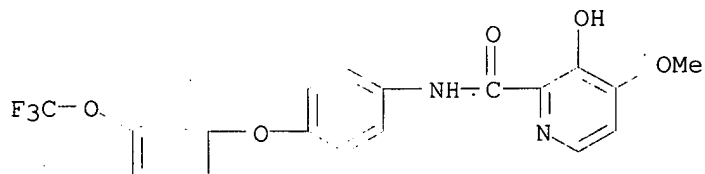
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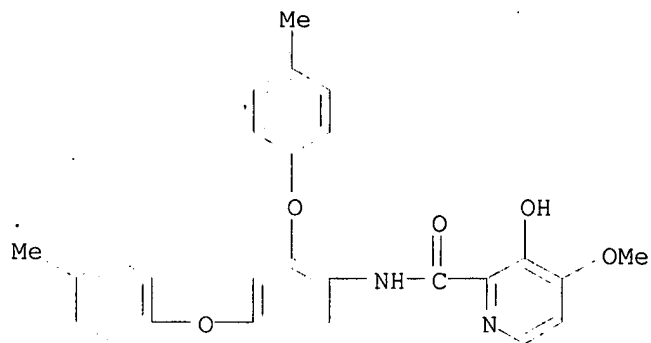
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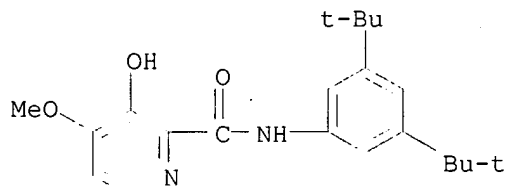
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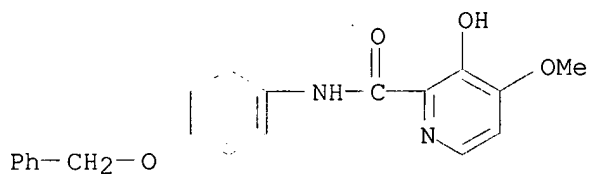
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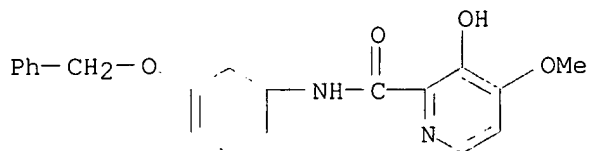
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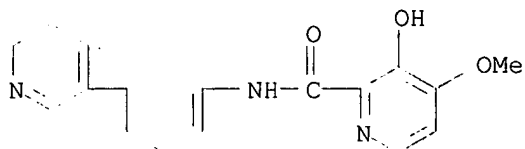
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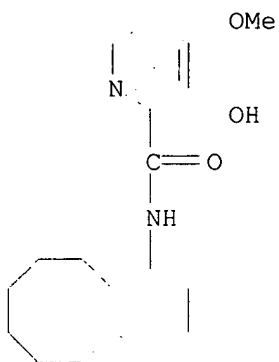


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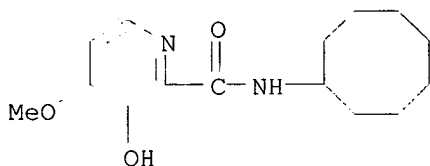
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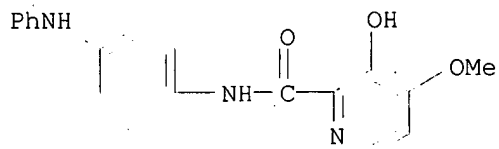
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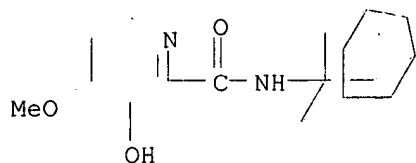
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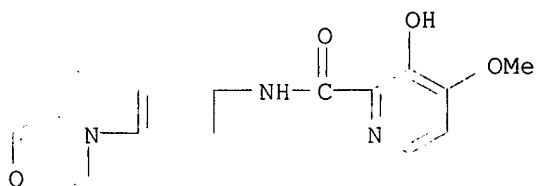
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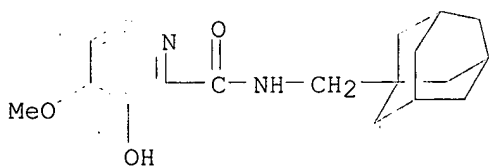
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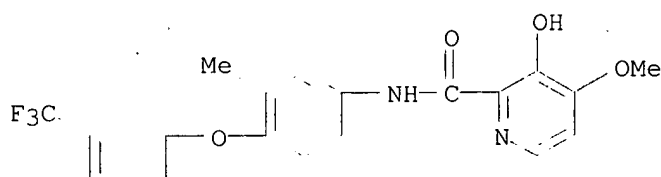
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RN 267415-97-4 HCAPLUS  
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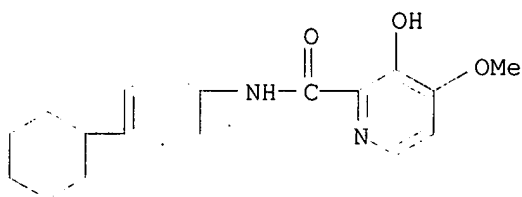


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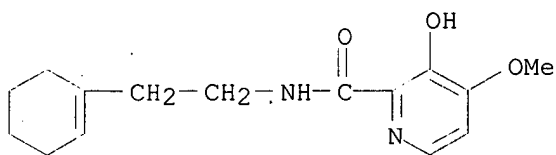


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(CA INDEX NAME)

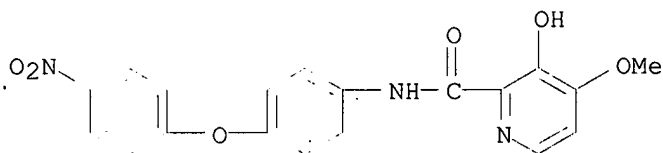




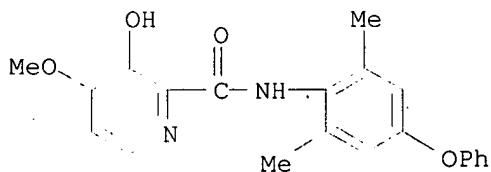
RN 267416-02-4 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[2-(1-cyclohexen-1-yl)ethyl]-3-hydroxy-4-methoxy-  
 (9CI) (CA INDEX NAME)



RN 267416-03-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(4-nitrophenoxy)phenyl]-  
 (9CI) (CA INDEX NAME)

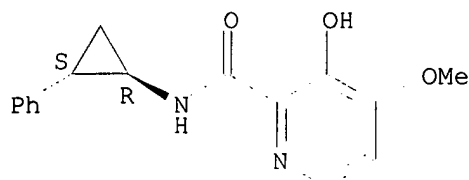


RN 267416-04-6 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(2,6-dimethyl-4-phenoxyphenyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



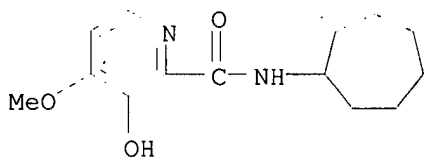
RN 267416-05-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S)-2-phenylcyclopropyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



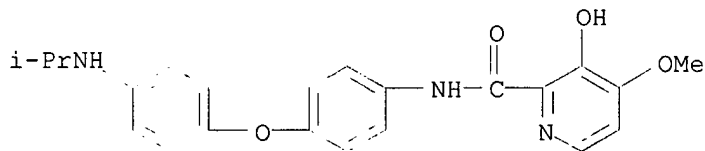
RN 267416-06-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-cycloheptyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



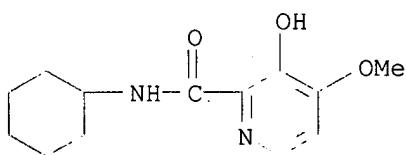
RN 267416-07-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[4-[(1-methylethyl)amino]phenoxy]phenyl]- (9CI) (CA INDEX NAME)



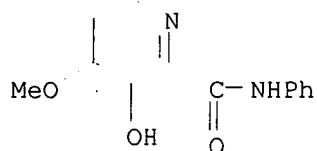
RN 267416-08-0 HCAPLUS

CN 2-Pyridinecarboxamide, N-cyclohexyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



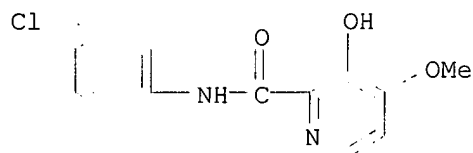
RN 267416-09-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-phenyl- (9CI) (CA INDEX NAME)



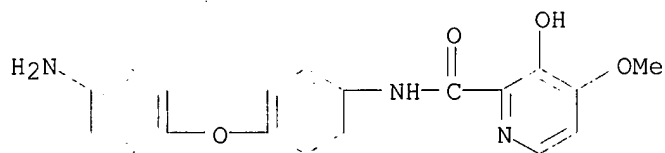
RN 267416-10-4 HCAPLUS

CN 2-Pyridinecarboxamide, N-(4-chlorophenyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



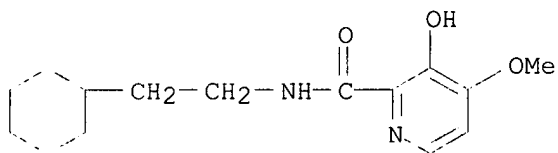
RN 267416-11-5 HCAPLUS

CN 2-Pyridinecarboxamide, N-[4-(4-aminophenoxy)phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



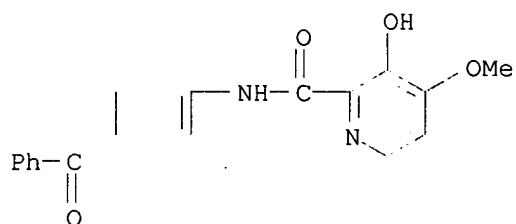
RN 267416-12-6 HCAPLUS

CN 2-Pyridinecarboxamide, N-(2-cyclohexylethyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

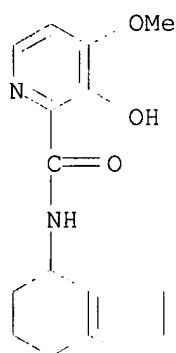


RN 267416-13-7 HCAPLUS

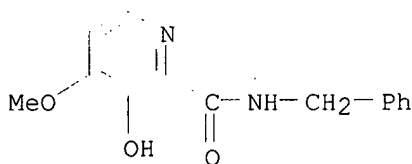
CN 2-Pyridinecarboxamide, N-(4-benzoylphenyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



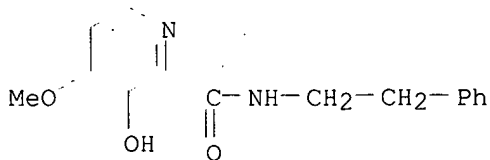
RN 267416-15-9 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1,2,3,4-tetrahydro-1-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 267416-16-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

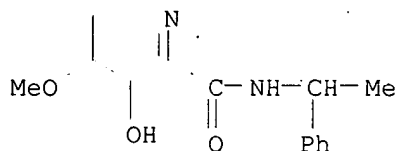


RN 267416-17-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(2-phenylethyl)- (9CI) (CA INDEX NAME)



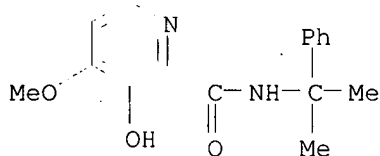
RN 267416-18-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)

INDEX NAME)



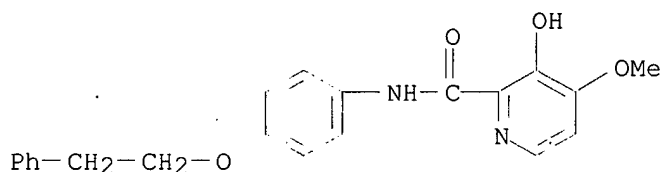
RN 267416-19-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1-methyl-1-phenylethyl)-  
(9CI) (CA INDEX NAME)



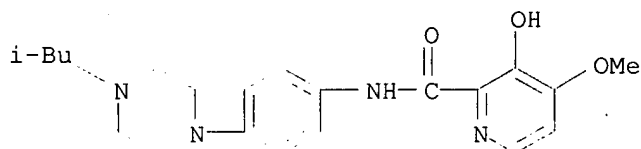
RN 267416-21-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(2-phenylethoxy)phenyl]-  
(9CI) (CA INDEX NAME)



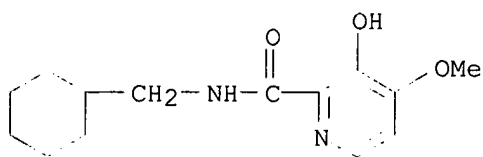
RN 267416-22-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-[4-(2-methylpropyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)



RN 267416-24-0 HCAPLUS

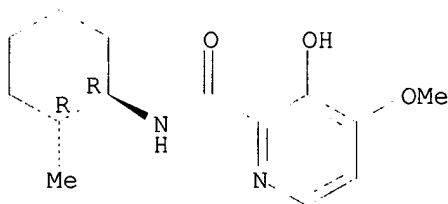
CN 2-Pyridinecarboxamide, N-(cyclohexylmethyl)-3-hydroxy-4-methoxy- (9CI)  
(CA INDEX NAME)



RN 267416-25-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2R)-2-methylcyclohexyl]-, rel- (9CI) (CA INDEX NAME)

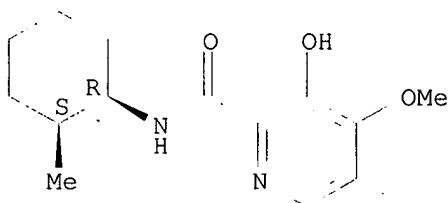
Relative stereochemistry.



RN 267416-26-2 HCAPLUS

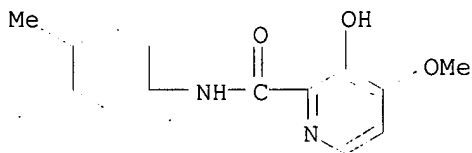
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R,2S)-2-methylcyclohexyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



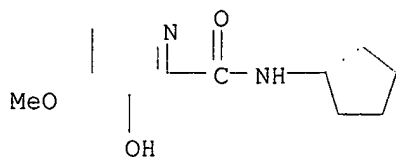
RN 267416-27-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(4-methylcyclohexyl)- (9CI) (CA INDEX NAME)

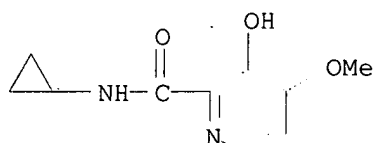


RN 267416-28-4 HCAPLUS

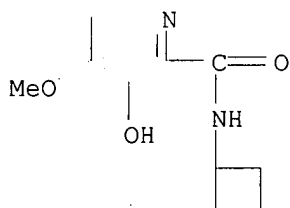
CN 2-Pyridinecarboxamide, N-cyclopentyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



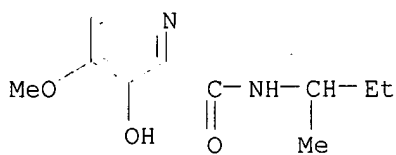
RN 267416-29-5 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-cyclopropyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



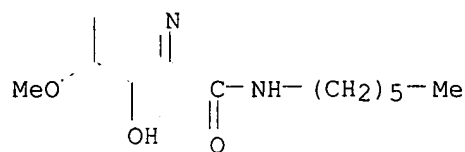
RN 267416-30-8 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-cyclobutyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN 267416-31-9 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1-methylpropyl)- (9CI) (CA INDEX NAME)

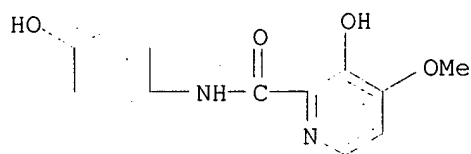


RN 267416-32-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-hexyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



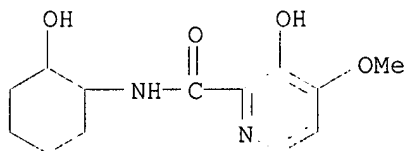
RN 267416-33-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-(4-hydroxycyclohexyl)-4-methoxy- (9CI)  
(CA INDEX NAME)



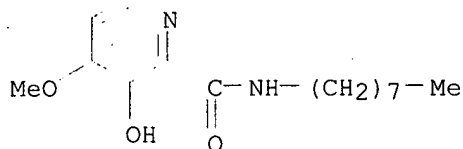
RN 267416-34-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-N-(2-hydroxycyclohexyl)-4-methoxy- (9CI)  
(CA INDEX NAME)



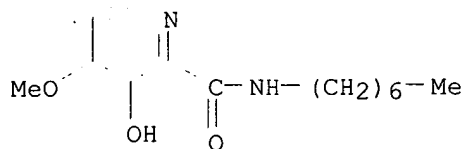
RN 267416-35-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-octyl- (9CI) (CA INDEX NAME)



RN 267416-36-4 HCAPLUS

CN 2-Pyridinecarboxamide, N-heptyl-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

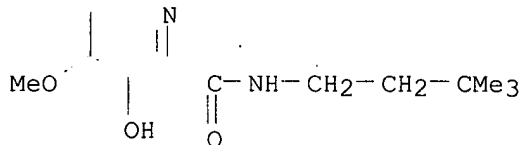




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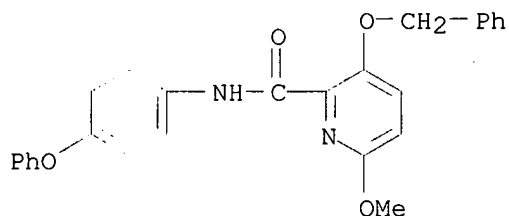
RN 267416-37-5 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3,3-dimethylbutyl)-3-hydroxy-4-methoxy- (9CI)  
(CA INDEX NAME)



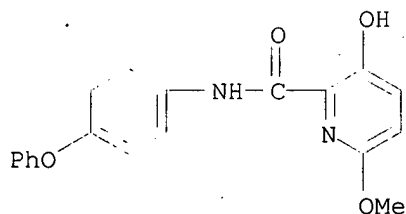
RN 267416-38-6 HCAPLUS

CN 2-Pyridinecarboxamide, 6-methoxy-N-(4-phenoxyphenyl)-3-(phenylmethoxy)-  
(9CI) (CA INDEX NAME)



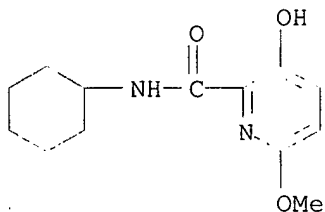
RN 267416-39-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-6-methoxy-N-(4-phenoxyphenyl)- (9CI) (CA  
INDEX NAME)



RN 267416-40-0 HCAPLUS

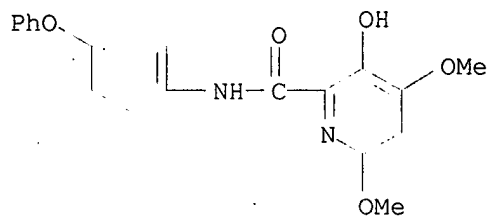
CN 2-Pyridinecarboxamide, N-cyclohexyl-3-hydroxy-6-methoxy- (9CI) (CA INDEX  
NAME)



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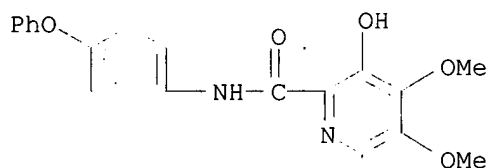
RN 267416-41-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4,6-dimethoxy-N-(4-phenoxyphenyl)- (9CI)  
(CA INDEX NAME)



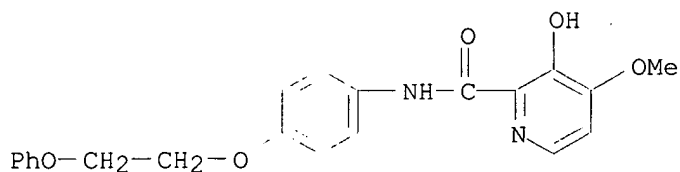
RN 267416-42-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4,5-dimethoxy-N-(4-phenoxyphenyl)- (9CI)  
(CA INDEX NAME)



RN 267416-48-8 HCAPLUS

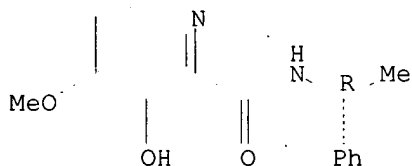
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(2-phenoxyethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 267416-49-9 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1R)-1-phenylethyl]- (9CI)  
(CA INDEX NAME)

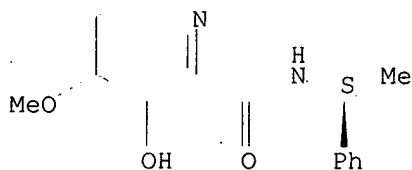
Absolute stereochemistry.



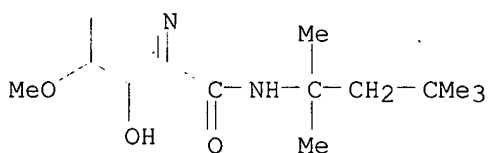
RN 267416-50-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[(1S)-1-phenylethyl]- (9CI)  
(CA INDEX NAME)

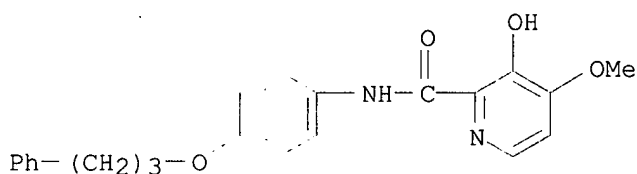
Absolute stereochemistry.



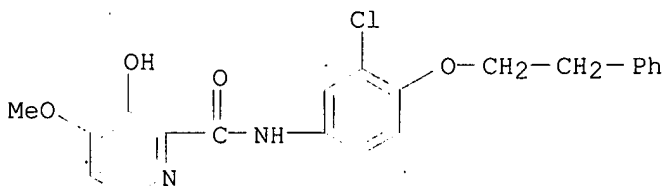
RN 267416-51-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(1,1,3,3-tetramethylbutyl)-  
(9CI) (CA INDEX NAME)



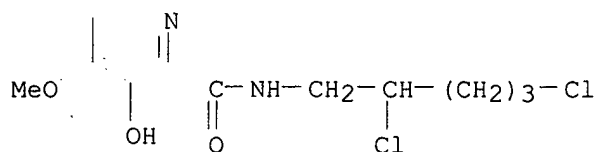
RN 267416-52-4 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(3-phenylpropoxy)phenyl]-  
(9CI) (CA INDEX NAME)



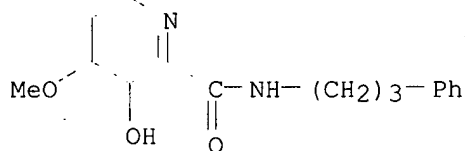
RN 267416-53-5 HCAPLUS  
CN 2-Pyridinecarboxamide, N-[3-chloro-4-(2-phenylethoxy)phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



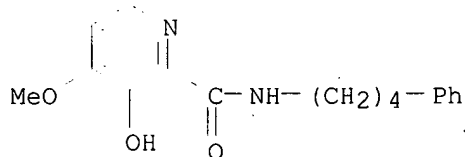
RN 267416-54-6 HCAPLUS  
CN 2-Pyridinecarboxamide, N-(2,5-dichloropentyl)-3-hydroxy-4-methoxy- (9CI)  
(CA INDEX NAME)



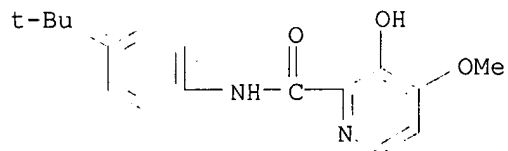
RN 267416-55-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(3-phenylpropyl)- (9CI) (CA INDEX NAME)



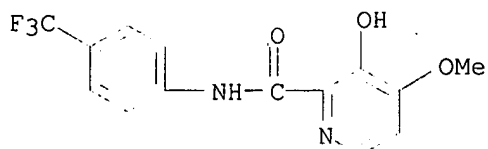
RN 267416-56-8 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(4-phenylbutyl)- (9CI) (CA INDEX NAME)



RN 267416-57-9 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[4-(1,1-dimethylethyl)phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

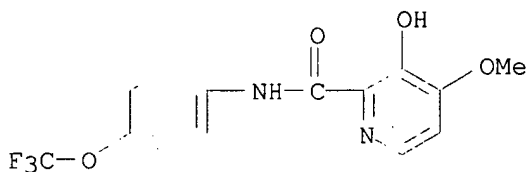


RN 267416-58-0 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 267416-59-1 HCAPLUS

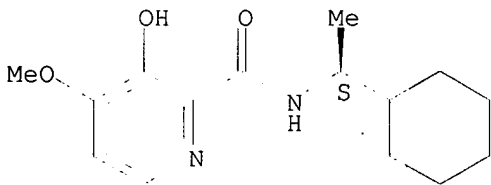
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(trifluoromethoxy)phenyl]-  
(9CI) (CA INDEX NAME)



RN 267416-60-4 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)

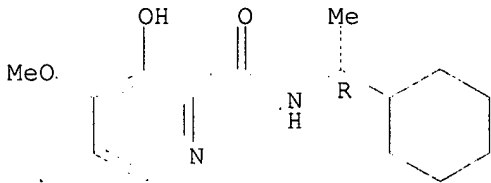
Absolute stereochemistry.



RN 267416-61-5 HCAPLUS

CN 2-Pyridinecarboxamide, N-[(1R)-1-cyclohexylethyl]-3-hydroxy-4-methoxy-  
(9CI) (CA INDEX NAME)

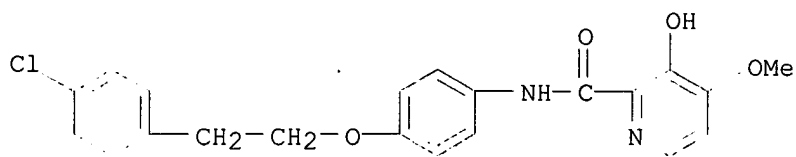
Absolute stereochemistry.



RN 267416-62-6 HCAPLUS

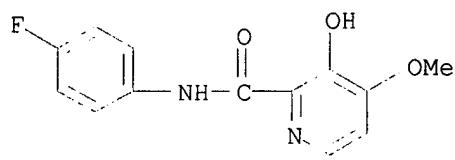
CN 2-Pyridinecarboxamide, N-[4-[2-(4-chlorophenyl)ethoxy]phenyl]-3-hydroxy-4-  
methoxy- (9CI) (CA INDEX NAME)

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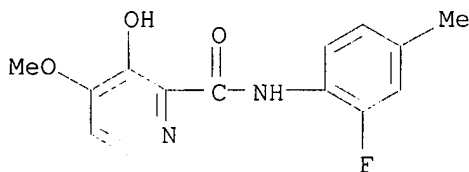
RN 267416-63-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-(4-fluorophenyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



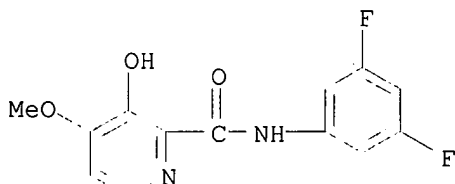
RN 267416-64-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-(2-fluoro-4-methylphenyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



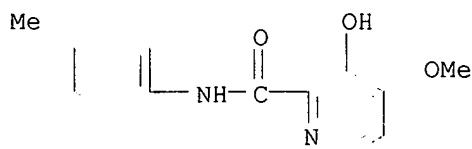
RN 267416-65-9 HCAPLUS

CN 2-Pyridinecarboxamide, N-(3,5-difluorophenyl)-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)

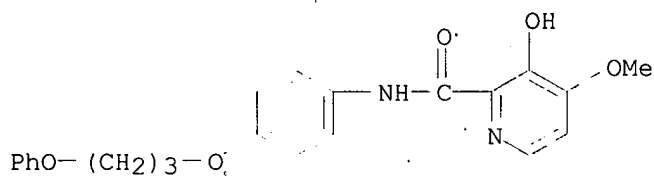


RN 267416-66-0 HCAPLUS

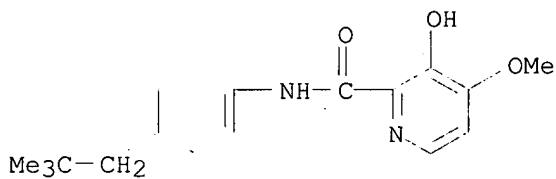
CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)



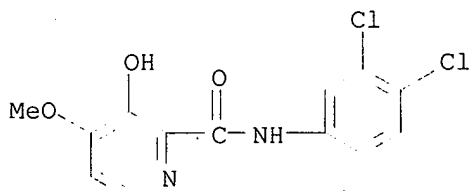
RN 267416-67-1 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4-methoxy-N-[4-(3-phenoxypropoxy)phenyl]-  
 (9CI) (CA INDEX NAME)



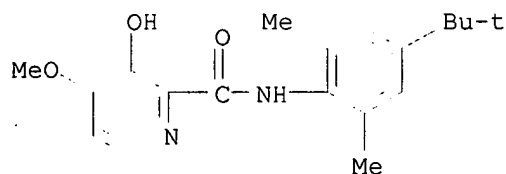
RN 267416-68-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[4-(2,2-dimethylpropyl)phenyl]-3-hydroxy-4-  
 methoxy- (9CI) (CA INDEX NAME)



RN 267416-70-6 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-(3,4-dichlorophenyl)-3-hydroxy-4-methoxy- (9CI)  
 (CA INDEX NAME)

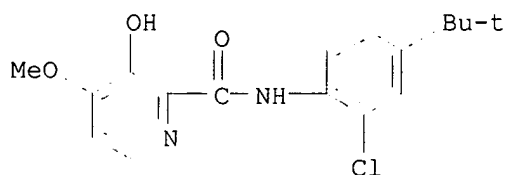


RN 267416-71-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, N-[4-(1,1-dimethylethyl)-2,6-dimethylphenyl]-3-  
 hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



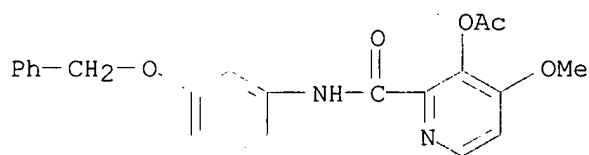
RN 267416-72-8 HCAPLUS

CN 2-Pyridinecarboxamide, N-[2-chloro-4-(1,1-dimethylethyl)phenyl]-3-hydroxy-4-methoxy- (9CI) (CA INDEX NAME)



RN. 267416-75-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-(acetyloxy)-4-methoxy-N-[3-(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



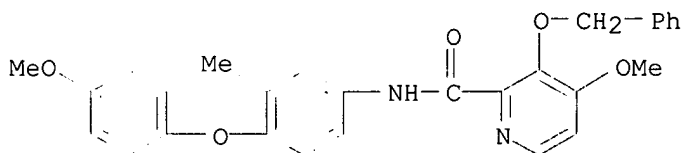
IT 267416-84-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of picolinamide derivs. as **pest controllers**)

RN 267416-84-2 HCAPLUS

CN 2-Pyridinecarboxamide, 4-methoxy-N-[4-(4-methoxyphenoxy)-3-methylphenyl]-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

19

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 12 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:530995 HCAPLUS

DOCUMENT NUMBER: 131:157713

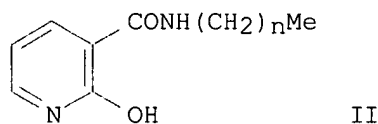
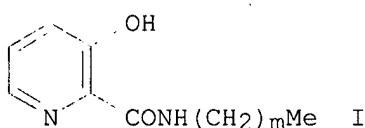




TITLE: Preparation of 3-hydroxypicolinic acid amides and 2-hydroxynicotinic acid amides as **fungicides**  
 INVENTOR(S): Taniguchi, Makoto; Imamura, Keiichi; Hannaka, Osamu; Iinuma, Katsuharu  
 PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11228542	A2	19990824	JP 1998-28947	19980210
PRIORITY APPLN. INFO.:			JP 1998-28947	19980210
OTHER SOURCE(S):		MARPAT 131:157713		

GI



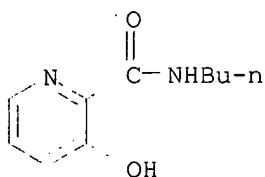
AB Title compds. I (m = 0-17) and II (n = 1-17), useful as **fungicides**, were prepd. Thus, reaction of 3-hydroxypicolinic acid with butylamine in CHCl<sub>3</sub> in the presence of 1-hydroxybenzotriazole, Et<sub>3</sub>N, and 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride at room temp. for 16 h gave 73% N-butyl-3-hydroxypicolinic acid amide. N-octadecyl-3-hydroxypicolinic acid amide had a min. inhibitory concn of 1.56 .mu.g/mL against *Saccharomyces cerevisiae*.

IT 1079-41-0P 70277-06-4P 116044-28-1P  
 116044-29-2P 237060-10-5P

RL: ADV (Adverse effect, including toxicity); AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of hydroxypyridinecarboxamides as **fungicides**)

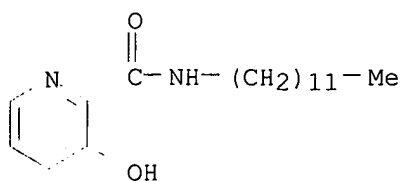
RN 1079-41-0 HCAPLUS

CN 2-Pyridinecarboxamide, N-butyl-3-hydroxy- (9CI) (CA INDEX NAME)

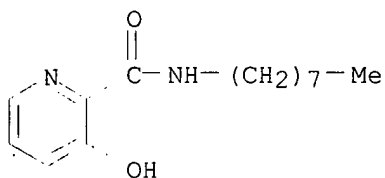


RN 70277-06-4 HCAPLUS

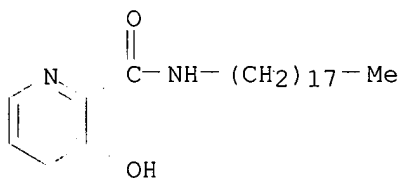
CN 2-Pyridinecarboxamide, N-dodecyl-3-hydroxy- (9CI) (CA INDEX NAME)



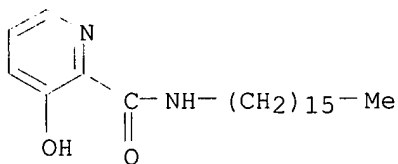
RN 116044-28-1 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-octyl- (9CI) (CA INDEX NAME)



RN 116044-29-2 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-N-octadecyl- (9CI) (CA INDEX NAME)



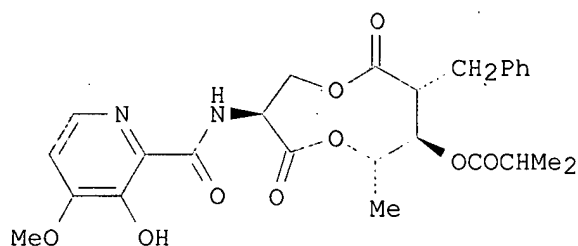
RN 237060-10-5 HCAPLUS  
CN 2-Pyridinecarboxamide, N-hexadecyl-3-hydroxy- (9CI) (CA INDEX NAME)



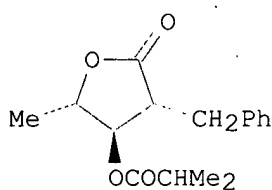
L30 ANSWER 13 OF 23 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1999:19692 HCAPLUS  
DOCUMENT NUMBER: 130:168617  
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02 III. Absolute configuration of an antifungal antibiotic, UK-2A, and consideration of its conformation  
AUTHOR(S): Shibata, Kozo; Hanafi, Muhammad; Fujii, Jyunko; Sakanaka, Osamu; Iinuma, Katsuharu; Ueki, Masashi; Taniguchi, Makoto  
CORPORATE SOURCE: Faculty of Science, Osaka City University, Osaka, 558-8585, Japan  
SOURCE: Journal of Antibiotics (1998), 51(12), 1113-1116

PUBLISHER:  
DOCUMENT TYPE:  
LANGUAGE:  
GI

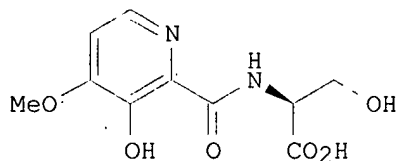
CODEN: JANTAJ; ISSN: 0021-8820  
Japan Antibiotics Research Association  
Journal  
English



I



II



III

AB The abs. configuration of UK-2A (I) was detd. by the elucidation of the abs. configurations of butanolide II and the serine deriv. III, the products of alk. hydrolysis of I. The abs. configuration of UK-2A was found to be (+)-(2R,3R,4S,7S).

IT 166820-04-8P 166820-06-0P 220437-84-3P

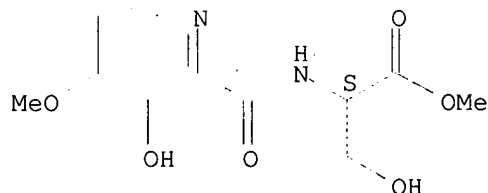
RL: SPN (Synthetic preparation); PREP (Preparation)

(detn. of the abs. configuration of UK-2A, an antifungal antibiotic)

RN 166820-04-8 HCAPLUS

CN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

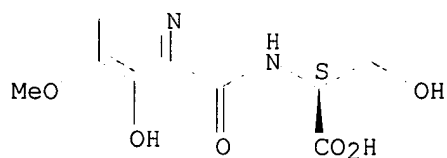
Absolute stereochemistry.



RN 166820-06-0 HCAPLUS

CN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]- (9CI) (CA INDEX NAME)

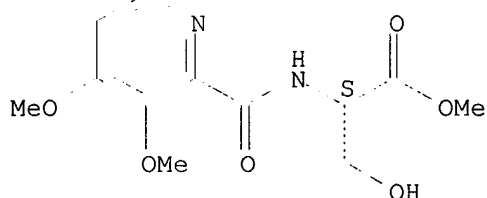
Absolute stereochemistry.



RN 220437-84-3 HCAPLUS

CN L-Serine, N-[(3,4-dimethoxy-2-pyridinyl)carbonyl]-, methyl ester (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 14 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:651994 HCAPLUS

DOCUMENT NUMBER: 130:3703

TITLE: Total synthesis of the antifungal dilactones UK-2A and  
UK-3A: the determination of their relative and  
absolute configurations, analog synthesis and  
antifungal activities

AUTHOR(S): Shimano, Masanao; Kamei, Noriyuki; Shibata, Tetsuo;  
Inoguchi, Kiyoshi; Itoh, Nobuko; Ikari, Takashi;  
Senda, Hisato

CORPORATE SOURCE: Dep. Med. Chem. Mol. Design, Drug Discovery Res. Lab.,  
Kaken Pharmaceutical Co., Ltd., Minami Kawara-cho,  
Yamashina-ku, Kyoto, 607-8042, Japan

SOURCE: Tetrahedron (1998), 54(42), 12745-12774  
CODEN: TETRAB; ISSN: 0040-4020

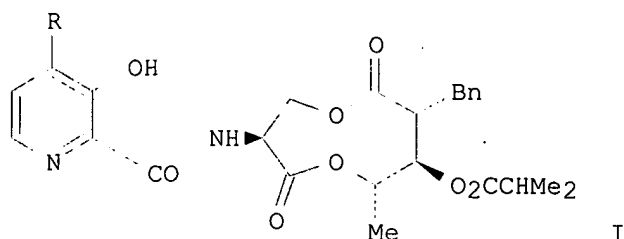
PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 130:3703

GI



AB The synthesis of the antifungal dilactones (I), UK-2A (R = OMe) and UK-3A (R = H), is described. In addn. to providing a workable synthetic route to these potent antifungal antibiotics, this has allowed us to det. the assignment of the relative and abs. configurations in the nine-membered ring. Furthermore, UK-2A analogs were also synthesized and evaluated for their antifungal activities and cytotoxic activities along with UK-2A, (2R, 3R, 4S, 7R)-UK-2A, UK-3A, (2R, 3R, 4S, 7R)-UK-3A, and antimycin A. The structural requirements for the selective cytotoxicity against yeasts and filamentous fungi will also be suggested.

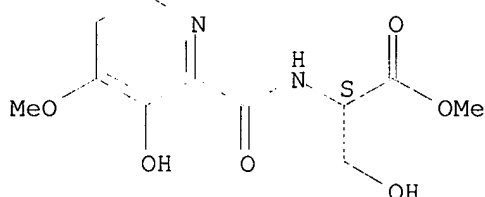
IT 166820-04-8P 215874-80-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(synthesis, antifungal activity, cytotoxicity and abs. configuration of dilactones UK-2A and UK-3A)

RN 166820-04-8 HCAPLUS

CN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester  
(9CI) (CA INDEX NAME)

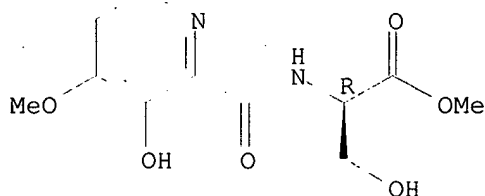
Absolute stereochemistry.



RN 215874-80-9 HCAPLUS

CN D-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS

## RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 15 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:681998 HCAPLUS

DOCUMENT NUMBER: 125:320560

TITLE: N-aryl[1,2,4]triazolo[1,5-a]pyridine-2-sulfonamide  
**herbicides**INVENTOR(S): Van Heertum, John C.; Kleschick, William A.; Arndt,  
Kim E.; Costales, Mark J.; Ehr, Robert J.; Bradley,  
Kimberly B.; Reifschneider, Walter; Benko, Zoltan;  
Jachetta, John J.

PATENT ASSIGNEE(S): Dowelanco, USA

SOURCE: U.S., 42 pp., Cont.-in-part of U.S. Ser. No. 273,519,  
abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

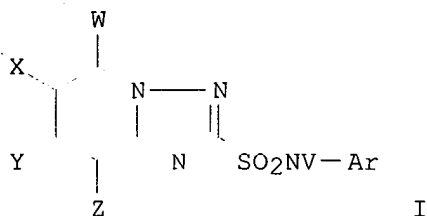
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5571775	A	19961105	US 1995-466510	19950606
CA 2175585	AA	19960125	CA 1995-2175585	19950710
WO 9601826	A1	19960125	WO 1995-US8609	19950710
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9529669	A1	19960209	AU 1995-29669	19950710
AU 691010	B2	19980507		
EP 717743	A1	19960626	EP 1995-925587	19950710
EP 717743	B1	20011114		
R: DE, ES, FR, GB, NL				
EP 972774	A2	20000119	EP 1999-202117	19950710
EP 972774	A3	20011031		
EP 972774	B1	20030226		
R: DE, ES, FR, GB, NL				
ES 2162928	T3	20020116	ES 1995-925587	19950710
HU 76435	A2	19970828	HU 1996-937	19960411
HU 215210	B	19981028		
US 5700940	A	19971223	US 1996-714838	19960906

PRIORITY APPLN. INFO.:

US 1994-273519	B2	19940711
US 1995-466510	A	19950606
EP 1995-925587	A3	19950710
WO 1995-US8609	W	19950710

OTHER SOURCE(S): MARPAT 125:320560

GI



AB Substituted N-aryl[1,2,4]triazolo[1,5-a]pyridine-2-sulfonamide compds. I [W,X,Y,Z = H, Me, Et, CH<sub>2</sub>OMe, CF<sub>3</sub>, etc.; V = H, alkoxy-carbonyl, etc.; Ar = (un)substituted Ph, methylpyrazolyl, etc.] are prepd. as **herbicides**. Examples are N-(2,6-difluorophenyl)-5-methoxy-7-methyl[1,2,4]triazolo[1,5-a]pyridine-2-sulfonamide, N-(4-bromo-1-methyl-3-pyrazolyl)-8-chloro-5-methoxy[1,2,4]triazolo[1,5-a]pyridine-2-sulfonamide, and N-(2-fluoro-4-methyl-3-pyridinyl)-8-ethoxy-6-chloro[1,2,4]triazolo[1,5-a]pyridine-2-sulfonamide, prepd. by condensation of a 2-chlorosulfonyl[1,2,4]triazolo[1,5-a]pyridine compd. with an aryl amine. I possess excellent herbicidal activity on a broad spectrum of vegetation, at low application rates.

IT **175965-92-1P**

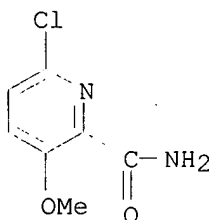
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in prepn. of triazolopyridinesulfonamide deriv.

**herbicide)**

RN 175965-92-1 HCAPLUS

CN 2-Pyridinecarboxamide, 6-chloro-3-methoxy- (9CI) (CA INDEX NAME)



L30 ANSWER 16 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:363369 HCAPLUS

DOCUMENT NUMBER: 125:33668

TITLE: Preparation of pyrimidinylphenyloxazole derivatives as **herbicides**

INVENTOR(S): Ueda, Akiyoshi; Miyazawa, Yasuyuki; Hara, Yoshihiko; Koguchi, Masami; Takahashi, Akihiro; Kawana, Takashi

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: PCT Int. Appl., 111 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

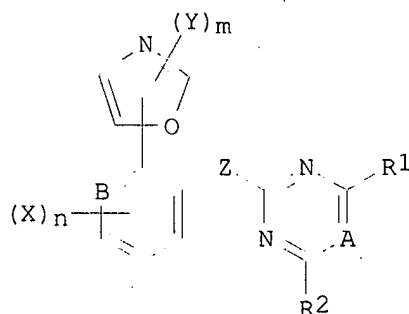
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

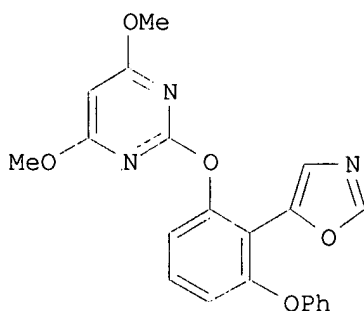
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9604278	A1	19960215	WO 1995-JP1523	19950801
W: AU, BR, CA, CN, HU, JP, KR, RU, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9530871	A1	19960304	AU 1995-30871	19950801
EP 776894	A1	19970604	EP 1995-926531	19950801
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5962685	A	19991005	US 1997-750932	19970128
US 6107251	A	20000822	US 1999-249650	19990212
PRIORITY APPLN. INFO.:			JP 1994-200196	A 19940802
			JP 1994-200197	A 19940802
			WO 1995-JP1523	W 19950801
OTHER SOURCE(S):			MARPAT 125:33668	
GI				



I



II

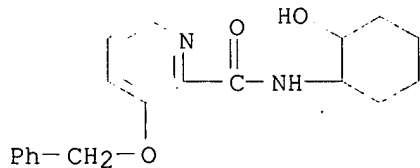
AB The title compds. I [A represents a nitrogen atom or an R3-substituted carbon atom; B represents a nitrogen atom, or an unsubstituted or X-substituted carbon atom; Z represents oxygen, S, sulfinyl or sulfonyl; R1 and R2 represent each independently hydrogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 haloalkoxy, C1-C6 haloalkyl, etc.; R3 represents hydrogen, C1-C6 alkyl, halogeno, nitro, formyl or acyl; X represents hydrogen, C1-C6 alkyl, C3-C7 cycloalkyl, C2-C6 alkenyl, C3-C6 alkynyl, C1-C6 haloalkyl, etc.; Y represents hydrogen, C1-C6 alkyl, C3-C7 cycloalkyl, C2-6 alkenyl, C3-6 alkynyl, C1-C6 haloalkyl, etc.; m represents an integer of 1 or 2; and n represents an integer of 1 to 4] are prepd. The title compd. II (prepn. given) (at 2.5 g/are) gave 100% control of barnyard grass, *Cyperus difformis*, and *Scirpus juncooides*.

IT 177711-12-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of pyrimidinylphenyloxazole derivs. as **herbicides**)

RN 177711-12-5 HCAPLUS

CN 2-Pyridinecarboxamide, N-(2-hydroxycyclohexyl)-3-(phenylmethoxy)- (9CI)  
(CA INDEX NAME)

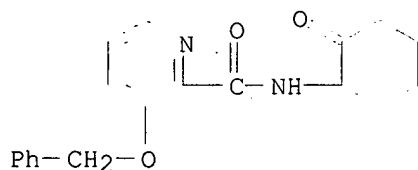
IT 177711-01-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(prepn. of pyrimidinylphenyloxazole derivs. as **herbicides**)

RN 177711-01-2 HCAPLUS

CN 2-Pyridinecarboxamide, N-(2-oxocyclohexyl)-3-(phenylmethoxy)- (9CI) (CA  
INDEX NAME)



L30 ANSWER 17 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:264959 HCAPLUS

DOCUMENT NUMBER: 124:317169

TITLE: Preparation of N-aryl[1,2,4]triazolo[1,5-a]pyridine-2-sulfonamides as **herbicides**

INVENTOR(S): Van Heertum, John C.; Kleschick, William A.; Arndt, Kim E.; Costales, Mark J.; Ehr, Robert J.; Bradley, Kimberly Brubaker; Reifschneider, Walter; Benko, Zoltan L.; Ash, Mary Lynne; Jachetta, John J.

PATENT ASSIGNEE(S): Dowelanco, USA

SOURCE: PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9601826	A1	19960125	WO 1995-US8609	19950710
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5571775	A	19961105	US 1995-466510	19950606
AU 9529669	A1	19960209	AU 1995-29669	19950710
AU 691010	B2	19980507		
EP 717743	A1	19960626	EP 1995-925587	19950710
EP 717743	B1	20011114		

R: DE, ES, FR, GB, NL

PRIORITY APPLN. INFO.:

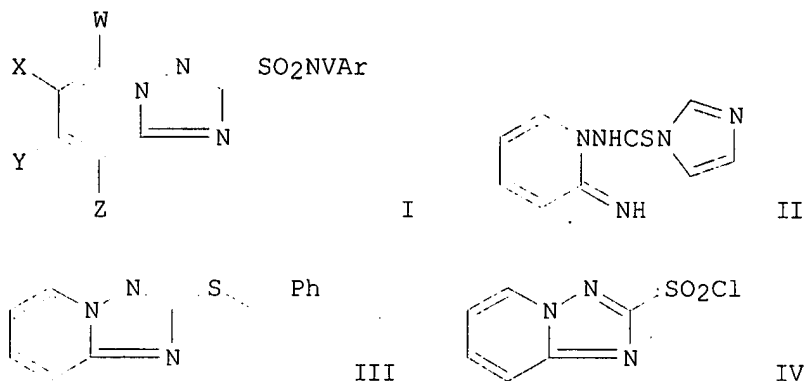
US 1994-273519 A 19940711

US 1995-466510 A 19950606

WO 1995-US8609 W 19950710

OTHER SOURCE(S): CASREACT 124:317169; MARPAT 124:317169

GI



AB The title compds. [I; W, X, Y, Z = H, alkyl, halo, etc.; V = H, alkylcarbonyl, alkoxy carbonyl, etc.; Ar = (substituted) Ph, 3-pyridinyl, pyrazolyl, 3-indazolyl] were prepd. Reaction of 1-[(1-imidazolylthionyl)amino]-2-iminopyridine II with PhCH<sub>2</sub>Cl in n-PrOH under reflux followed by chlorooxidn. of the intermediate III with Cl<sub>2</sub> in CH<sub>2</sub>Cl<sub>2</sub>/H<sub>2</sub>O, and condensation of the chlorosulfonyl intermediate IV with 2,6-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub> (treated with TMSCl, Et<sub>3</sub>N, NaI in MeCN) in the presence of catalytic amt. of DMSO in MeCN afforded I [W, X, Y, Z, V = H; Ar = 2,6-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>] which showed postemergence herbicidal activity against morningglory and velvetleaf at 62.5 ppm.

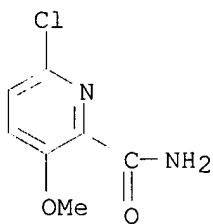
IT 175965-92-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of N-aryl[1,2,4]triazolo[1,5-a]pyridine-2-sulfonamides as herbicides)

RN 175965-92-1 HCAPLUS

CN 2-Pyridinecarboxamide, 6-chloro-3-methoxy- (9CI) (CA INDEX NAME)



L30 ANSWER 18 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:995215 HCAPLUS

DOCUMENT NUMBER: 124:117098

TITLE: Preparation of pyridylanilide derivatives as **fungicides**

INVENTOR(S): Riordan, Peter Dominic; Boddy, Ian Kenneth; Osbourn, Susan Elisabeth

PATENT ASSIGNEE(S): Agrevo UK Ltd., UK

SOURCE: PCT Int. Appl., 35 pp.

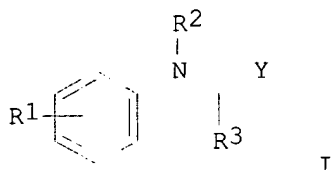
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9525723	A1	19950928	WO 1995-GB570	19950316
W: AU, BG, BR, CA, CN, CZ, FI, HU, JP, KR, KZ, MX, NO, NZ, PL, RO, RU, SD, SK, UA, US				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9518981	A1	19951009	AU 1995-18981	19950316
AU 688473	B2	19980312		
EP 750611	A1	19970102	EP 1995-911403	19950316
EP 750611	B1	19980708		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CN 1143954	A	19970226	CN 1995-192131	19950316
HU 74778	A2	19970228	HU 1996-2547	19950316
HU 214292	B	19980302		
BR 9507105	A	19970909	BR 1995-7105	19950316
JP 09510471	T2	19971021	JP 1995-524455	19950316
AT 168099	E	19980715	AT 1995-911403	19950316
ZA 9502205	A	19951031	ZA 1995-2205	19950317
US 5756524	A	19980526	US 1996-714149	19960918
PRIORITY APPLN. INFO.:			GB 1994-5347	19940318
			WO 1995-GB570	19950316
OTHER SOURCE(S):		MARPAT 124:117098		
GI				

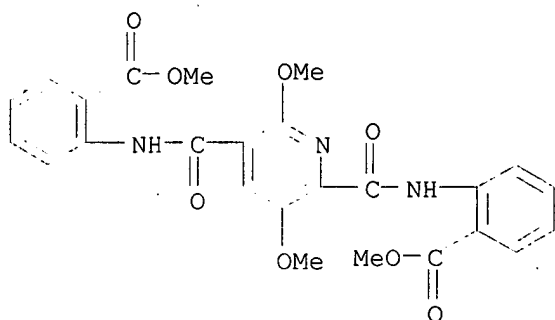


AB Title compds. I [X = O, S; R1, R2 = H, alkyl, cycloalkyl, alkenyl, etc.; R3 = (substituted) pyridyl, pyrimidinyl, pyrazinyl, etc.] were prepd. Condensation of 6-methoxynicotinoyl chloride with Me anthranilate in the presence of Et3N in THF afforded I (X = O; R1 = R2 = H; R3 = 6-methoxy-3-pyridyl) which showed activity against barley powdery mildew, rice blast and apple scab at .ltoreq. 500 ppm.

IT **173056-93-4P**  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of anilide derivs. as **fungicides**)

RN 173056-93-4 HCAPLUS

CN Benzoic acid, 2,2'-[(3,6-dimethoxy-2,5-pyridinediyl)bis(carbonylimino)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L30 ANSWER 19 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:671786 HCAPLUS

DOCUMENT NUMBER: 123:164736

TITLE: The structures of UK-1 and UK-2, novel antibiotics from *Streptomyces* sp. 517-02

AUTHOR(S): Hanafi, O Muhammad; Kozo, Shibata; Masaru, Kashiwada; Masashi, Ueki; Makoto, Taniguchi

CORPORATE SOURCE: Faculty Science, Osaka City University, Japan

SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1994), 36th, 728-35

CODEN: TYKYDS

PUBLISHER: Nippon Kagakkai

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB The mycelial cake was extd. with acetone, and filtered. The filtrate was concd. to give aq. soln., which was extd. with chloroform. Org. layer was concd. to yield an oily material, followed by purifn. on silica gel column chromatog. to give crude UK-1 and UK-2. Finally, the recrystn. of each fractions from MeOH, afforded UK-1 and UK-2. UK-1 (I), a novel metabolite, demonstrated potent cytotoxic activity against B16, Hela and P388 cells, and UK-2, novel complex of antibiotics, exhibited strong antifungal activity. Methylation of UK-1 by CH<sub>3</sub>I and anhyd. K<sub>2</sub>CO<sub>3</sub> in dry acetone gave monomethyl ether deriv., Me-UK-1. Alk. hydrolysis of UK-1 afforded carboxylic acid deriv., DeMe-UK-1. Partial structures, A, B, and C were elucidated by COSY, and COLOC expts. Based on these results, the structure of UK-1 was deduced to be a novel benzoxazole dimer deriv. UK-2, novel metabolite contg. complex of antibiotics with strong antifungal activity, was purified by reverse phase HPLC, to give UK-2A, B, C and D. From NMR and mass spectral data, the structures of UK-2A, B, C and D were established as isobutyrate, tiglate, isovalerate, and 2-methylbutyrate of nine membered dilactone skeleton, resp. Based on the result of synthesis of hydrolysis products, the abs. configuration of UK-2 was identified.

IT 166820-04-8 166820-06-0

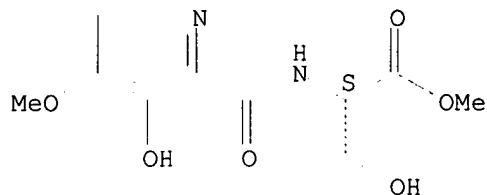
RL: MSC (Miscellaneous)

(structures of UK-1 and UK-2, novel antibiotics from *Streptomyces* sp. 517-02)

RN 166820-04-8 HCAPLUS

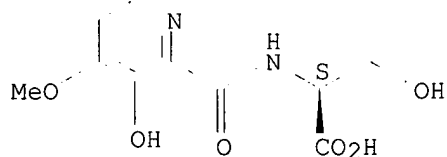
CN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



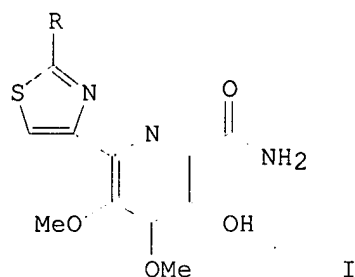
RN 166820-06-0 HCAPLUS  
 CN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L30 ANSWER 20 OF 23 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1991:99967 HCAPLUS  
 DOCUMENT NUMBER: 114:99967  
 TITLE: Polysubstituted thiazolylpyridine carboxamide  
 antifungal antibiotic from Saccharothrix  
 aerocolonicensis  
 INVENTOR(S): Nishio, Maki; Ando, Shigeyuki; Miyaki, Takeo; Konishi,  
 Masataka; Oki, Toshikazu  
 PATENT ASSIGNEE(S): Bristol-Myers Co., USA  
 SOURCE: U.S., 19 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4956374	A	19900911	US 1988-226016	19880729
PRIORITY APPLN. INFO.:			US 1988-226016	19880729
OTHER SOURCE(S):	MARPAT 114:99967			
GI				



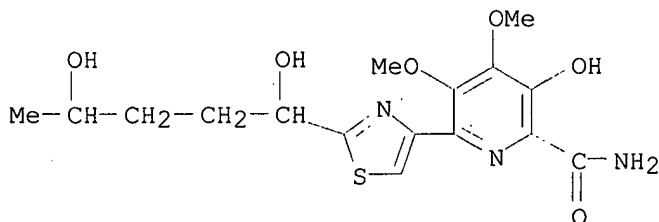
AB A complex of antifungal antibiotics BU-3557 of general formula I (R = pentyl substituted with C1-C3 alkyl, hydroxy, or oxo) are manufd. by *Saccharothrix aerocolonigenes* N806-4. The compds. are effective against human fungal pathogens. The compds. were isolated from culture supernatants of *S. aerocolonigenes* grown in a complex medium by ion-exchange chromatog., solvent extn. and chromatog. on silica gel. Yields of purified components of the mixt. varied from 984 mg (BU-3557A3) to 18 mg (BU-3557A3). In vitro testing of these antibiotics against human pathogens showed IC50 values of 3.1 .mu.g/mL against *Candida albicans* A9540 (B2, D), *Aspergillus fumigatus* IAM 2034 (C1,C2,C3C4,C5,D) and 6.3 .mu.g/mL for B1,B2,B3,C1,C2,C3C4,C5, and D against *Trichophyton mentagrophytes* #4329. BU-3557B2 was effective in the treatment of vaginal candidiasis in mice.

IT 122535-48-2P, Antibiotic BU 3557A1 122535-49-3P, Antibiotic BU 3557A2 122535-50-6P, Antibiotic BU 3557A3 122535-51-7P, Antibiotic BU 3557B1 122535-52-8P, Antibiotic BU 3557B2 122535-53-9P, Antibiotic BU 3557B3 122535-54-0P, Antibiotic BU 3557C1 122535-55-1P, Antibiotic BU 3557C2 122535-56-2P, Antibiotic BU 3557C3 122535-57-3P, Antibiotic BU 3557C4 122535-58-4P, Antibiotic BU 3557C5 122535-59-5P, Antibiotic BU 3557D  
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)

(manuf. of, with *Saccharothrix aerocolonigenes*, as medical fungicide)

RN 122535-48-2 HCAPLUS

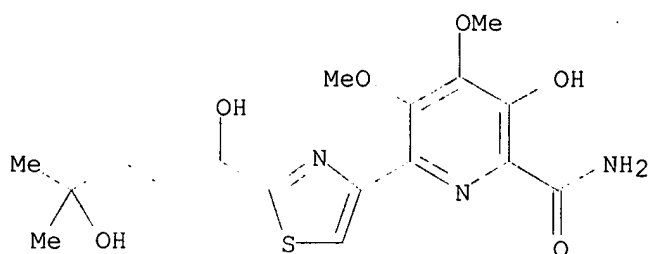
CN 2-Pyridinecarboxamide, 6-[2-(1,4-dihydroxypentyl)-4-thiazolyl]-3-hydroxy-4,5-dimethoxy- (9CI) (CA INDEX NAME)



RN 122535-49-3 HCAPLUS

CN 2-Pyridinecarboxamide, 6-[2-(1,4-dihydroxy-4-methylpentyl)-4-thiazolyl]-3-hydroxy-4,5-dimethoxy-, (-)- (9CI) (CA INDEX NAME)

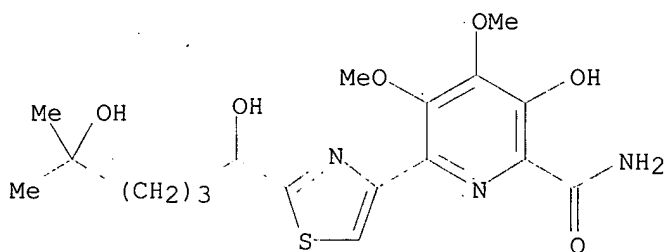
Rotation (-).



RN 122535-50-6 HCAPLUS

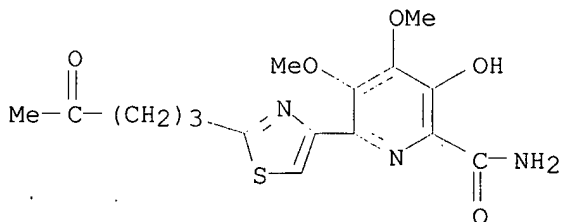
CN 2-Pyridinecarboxamide, 6-[2-(1,5-dihydroxy-5-methylhexyl)-4-thiazolyl]-3-hydroxy-4,5-dimethoxy-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



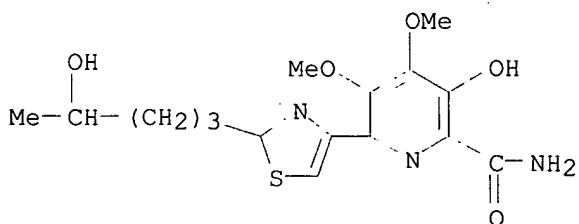
RN 122535-51-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4,5-dimethoxy-6-[2-(4-oxopentyl)-4-thiazolyl]- (9CI) (CA INDEX NAME)



RN 122535-52-8 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(4-hydroxypentyl)-4-thiazolyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)

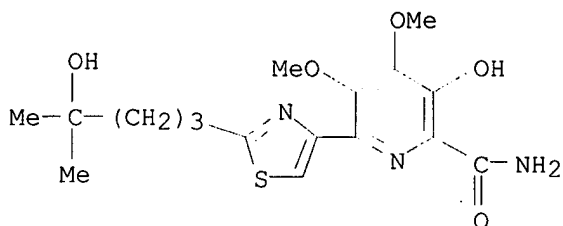




Robinson 09/830,923

RN 122535-53-9 HCAPLUS

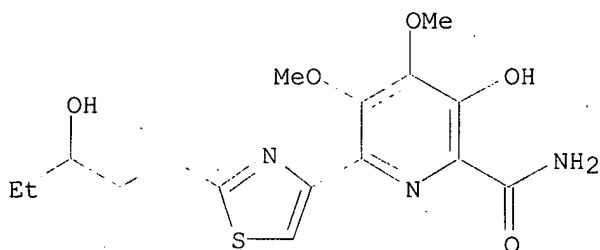
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(4-hydroxy-4-methylpentyl)-4-thiazolyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)



RN 122535-54-0 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(3-hydroxypentyl)-4-thiazolyl]-4,5-dimethoxy-, (+)- (9CI) (CA INDEX NAME)

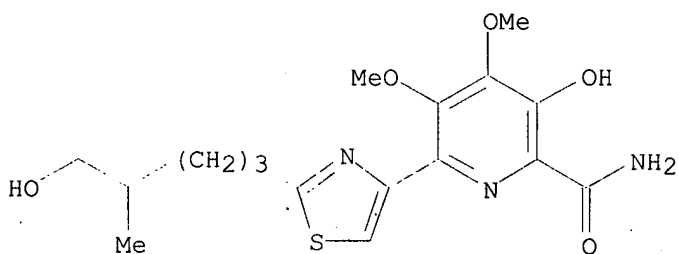
Rotation (+).



RN 122535-55-1 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(5-hydroxy-4-methylpentyl)-4-thiazolyl]-4,5-dimethoxy-, (-)- (9CI) (CA INDEX NAME)

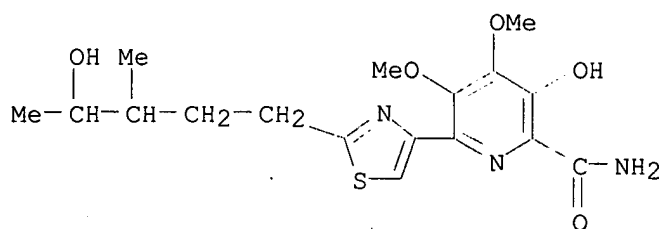
Rotation (-).



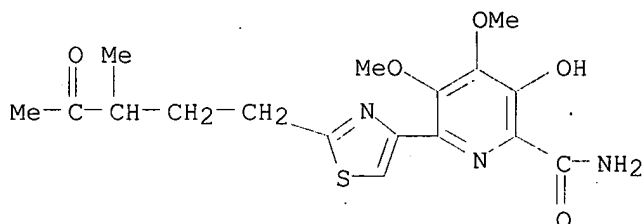
RN 122535-56-2 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(4-hydroxy-3-methylpentyl)-4-thiazolyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)

Robinson 09/830,923

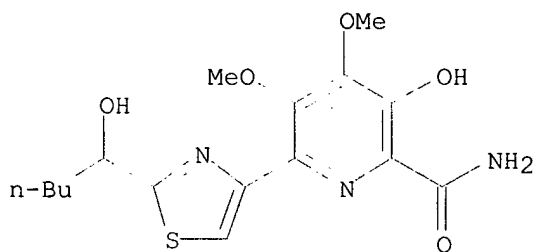


RN 122535-57-3 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4,5-dimethoxy-6-[2-(3-methyl-4-oxopentyl)-4-thiazolyl]- (9CI) (CA INDEX NAME)

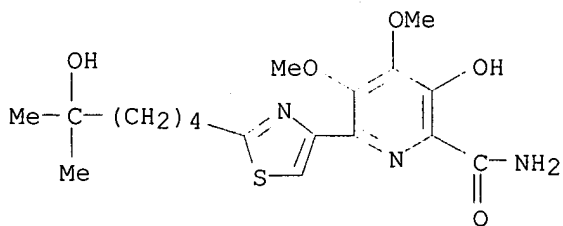


RN 122535-58-4 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(1-hydroxypentyl)-4-thiazolyl]-4,5-dimethoxy-, (+)- (9CI) (CA INDEX NAME)

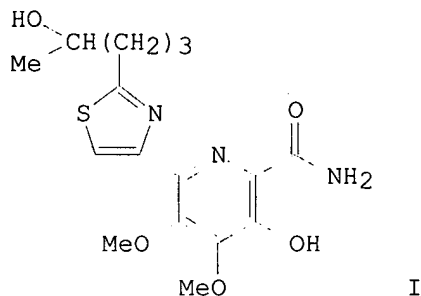
Rotation (+).



RN 122535-59-5 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(5-hydroxy-5-methylhexyl)-4-thiazolyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)



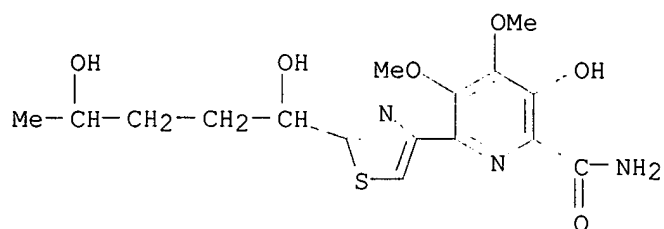
L30 ANSWER 21 OF 23 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1989:512086 HCAPLUS  
 DOCUMENT NUMBER: 111:112086  
 TITLE: Karnamicin, a complex of new antifungal antibiotics.  
 I. Taxonomy, fermentation, isolation and  
 physico-chemical and biological properties  
 AUTHOR(S): Nishio, Maki; Tomatsu, Kozo; Konishi, Masataka;  
 Tomita, Koji; Oki, Toshikazu; Kawaguchi, Hiroshi;  
 Clardy, Jon  
 CORPORATE SOURCE: Tokyo Res. Cent., Bristol-Myers Res. Inst., Ltd.,  
 Tokyo, 153, Japan  
 SOURCE: Journal of Antibiotics (1989), 42(6), 852-68  
 CODEN: JANTAJ; ISSN: 0021-8820  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB A complex of new antifungal antibiotics designated karnamicin was isolated from the cultured broth of *Saccharothrix aerocolonigenes* No. N806-4. Fifteen components have so far been isolated from the complex; the major component karnamicin B2 (I) was identified by x-ray crystallog. to be a novel mol. unrelated to known antibiotics. All components of karnamicin exhibited a rather broad spectrum of activity against fungi and yeasts with MICs ranging from 3.1 to 50 .mu.g/mL.

IT 122535-48-2, Karnamicin A1 122535-49-3, Karnamicin A2  
 122535-50-6, Karnamicin A3 122535-51-7, Karnamicin B1  
 122535-52-8, Karnamicin B2 122535-53-9, Karnamicin B3  
 122535-54-0, Karnamicin C1 122535-55-1, Karnamicin C2  
 122535-56-2, Karnamicin C3 122535-57-3, Karnamicin C4  
 122535-58-4, Karnamicin C5 122535-59-5, Karnamicin D1  
 122535-60-8, Karnamicin D2 122535-61-9, Karnamicin D3  
 122535-62-0, Karnamicin D4  
 RL: BIOL (Biological study)  
 (antifungal antibiotic, from *Saccharothrix aerocolonigenes*)

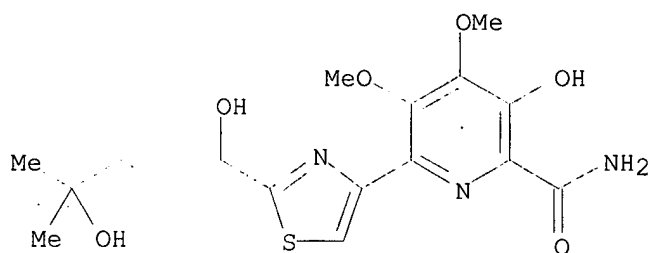
RN 122535-48-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, 6-[2-(1,4-dihydroxypentyl)-4-thiazolyl]-3-hydroxy-4,5-dimethoxy- (9CI) (CA INDEX NAME)



RN 122535-49-3 HCAPLUS

CN 2-Pyridinecarboxamide, 6-[2-(1,4-dihydroxy-4-methylpentyl)-4-thiazolyl]-3-hydroxy-4,5-dimethoxy-, (-)- (9CI) (CA INDEX NAME)

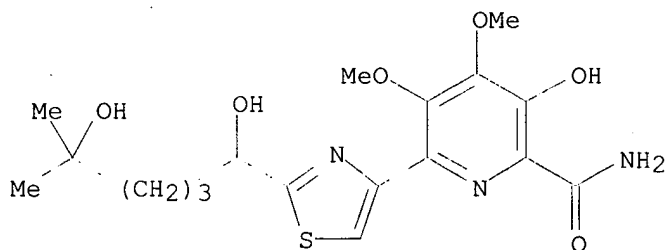
Rotation (-).



RN 122535-50-6 HCAPLUS

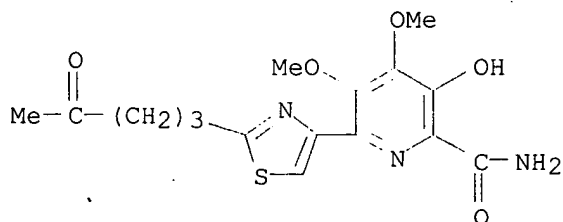
CN 2-Pyridinecarboxamide, 6-[2-(1,5-dihydroxy-5-methylhexyl)-4-thiazolyl]-3-hydroxy-4,5-dimethoxy-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



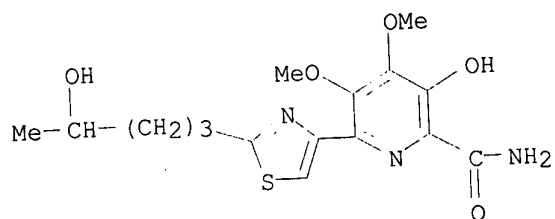
RN 122535-51-7 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy-4,5-dimethoxy-6-[2-(4-oxopentyl)-4-thiazolyl]- (9CI) (CA INDEX NAME)

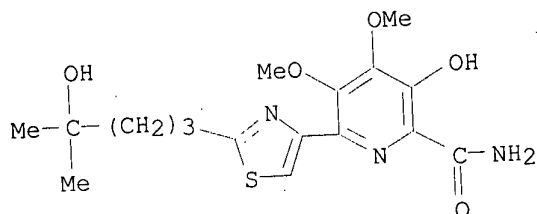


Robinson 09/830,923

RN 122535-52-8 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(4-hydroxypentyl)-4-thiazolyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)

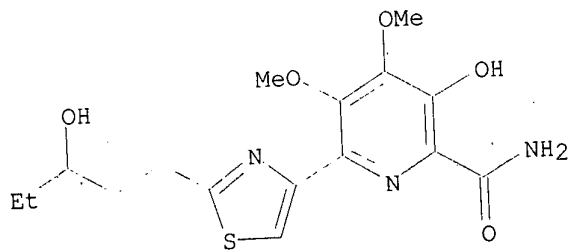


RN 122535-53-9 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(4-hydroxy-4-methylpentyl)-4-thiazolyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)



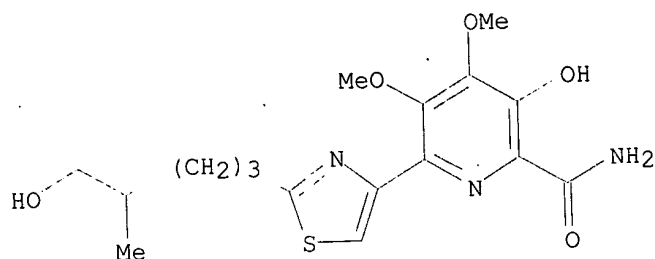
RN 122535-54-0 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(3-hydroxypentyl)-4-thiazolyl]-4,5-dimethoxy-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).

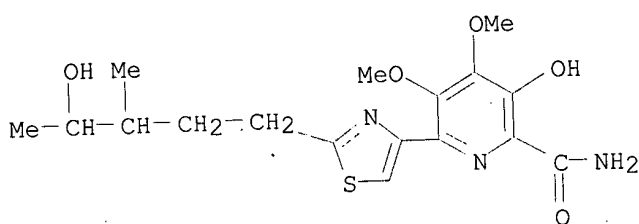


RN 122535-55-1 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(5-hydroxy-4-methylpentyl)-4-thiazolyl]-4,5-dimethoxy-, (-)- (9CI) (CA INDEX NAME)

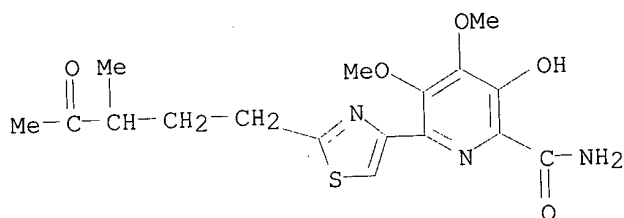
Rotation (-).



RN 122535-56-2 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(4-hydroxy-3-methylpentyl)-4-thiazolyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)

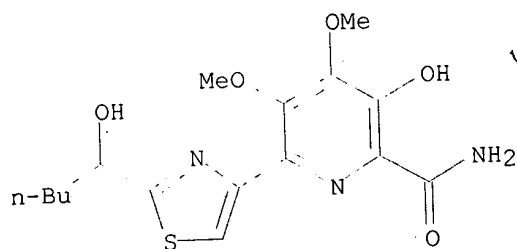


RN 122535-57-3 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-4,5-dimethoxy-6-[2-(3-methyl-4-oxopentyl)-4-thiazolyl]- (9CI) (CA INDEX NAME)



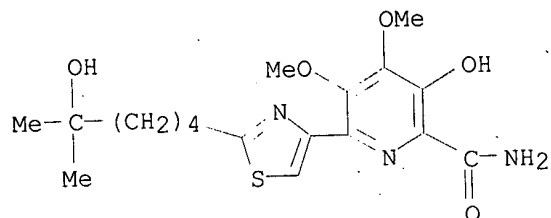
RN 122535-58-4 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(1-hydroxypentyl)-4-thiazolyl]-4,5-dimethoxy-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).

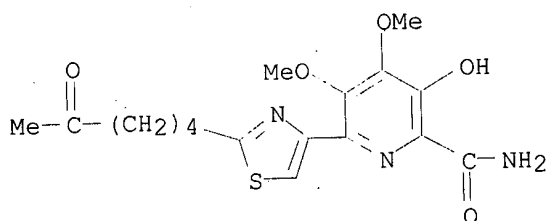


Robinson 09/830,923

RN 122535-59-5 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(5-hydroxy-5-methylhexyl)-4-thiazolyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)

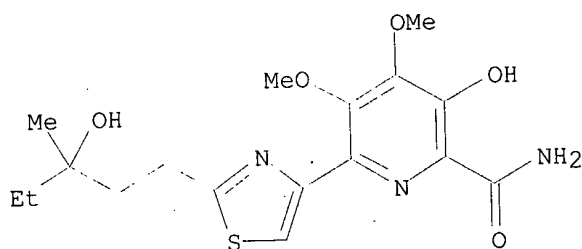


RN 122535-60-8 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4,5-dimethoxy-6-[2-(5-oxohexyl)-4-thiazolyl]- (9CI) (CA INDEX NAME)

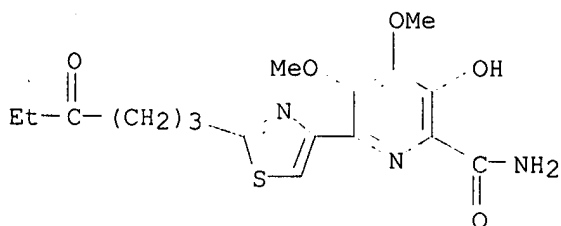


RN 122535-61-9 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-6-[2-(3-hydroxy-3-methylpentyl)-4-thiazolyl]-4,5-dimethoxy-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).



RN 122535-62-0 HCAPLUS  
CN 2-Pyridinecarboxamide, 3-hydroxy-4,5-dimethoxy-6-[2-(4-oxohexyl)-4-thiazolyl]- (9CI) (CA INDEX NAME)



L30 ANSWER 22 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1976:592604 HCAPLUS

DOCUMENT NUMBER: 85:192604

TITLE: Investigations on phosphoric acid and thiophosphoric acid esters with a heterocyclic substituent. 10th and last communication. Aza analogy. II: Derivatives of oxazolo[4,5-b]pyridin-2(3H)-one, an aza analog of benzoxazol-2(3H)-one

AUTHOR(S): Ruefenacht, Kurt; Kristinsson, Haukur; Mattern, Guenter

CORPORATE SOURCE: Div. Agrarchem., Ciba-Geigy A.-G., Basel, Switz.

SOURCE: Helvetica Chimica Acta (1976), 59(5), 1593-612

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: German

GI

I, R=H

II, R=CH<sub>2</sub>SP(Z<sup>1</sup>)(OR<sup>2</sup>)<sub>2</sub>

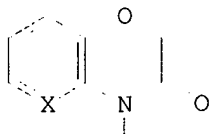
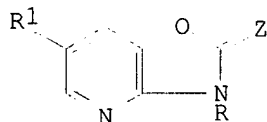
III, R=CH<sub>2</sub>SP(O)(OR<sup>2</sup>)(SR<sup>3</sup>)

IV, R=CH<sub>2</sub>SP(S)(OR<sup>2</sup>)R<sup>3</sup>

V, R=CH<sub>2</sub>R<sup>4</sup>

VI, R=CH(CH<sub>2</sub>R<sup>5</sup>)SP(S)(OR<sup>2</sup>)<sub>2</sub>, Z=O

VII, R=R<sup>6</sup>



CH<sub>2</sub>SP(S)(OR<sup>2</sup>)<sub>2</sub> VIII

AB Oxazolopyridinone I (R<sub>1</sub> = H, Z = O) an aza analog of benzoxazol-2(3H)-one, was prepd. by cyclization of 2-amino-3-hydroxypyridine with COCl<sub>2</sub> (95.5% yield) or by Hofmann degradn. of 3-hydroxypicolinamide (74.5% yield). Halogenation and nitration of I (R<sub>1</sub> = H, Z = O) gave 41-89.5% I (R<sub>1</sub> = Cl, Br, NO<sub>2</sub>, Z = O). Thiophosphoric and thiophosphonic esters II (R<sub>1</sub> = H, Cl, Br, NO<sub>2</sub>; R<sub>2</sub> = alkyl; Z, Z<sup>1</sup> = O, S) (28 compds.), III (R<sub>1</sub> = H, Cl; R<sub>2</sub>, R<sub>3</sub> = alkyl, Z = O) (19 compds.), and IV (R<sub>1</sub> = H, Cl, NO<sub>2</sub>; R<sub>2</sub> = alkyl, R<sub>3</sub> = alkyl, Ph, Z = O) (28 compds.) with high insecticidal, acaricidal, and anthelmintic activities and low mammalian toxicities, were prepd. (23-86%,



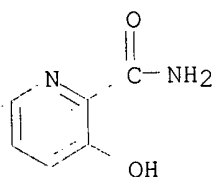
51-78%, and 37-92% yields, resp.) by converting I (R1 = H, Cl, Br, NO2, Z = O; R1 = H, Z = S) to V (R4 = OH) with formalin, chlorinating to V (R4 = Cl), and treating with O,O-dialkylthio- or dithiophosphate or O,S-dialkyl dithiophosphate salts or O-alkyldithiophosphonic acids. Thiophosphates VII (R5 = H, halo), prepd. from I (Z = O) via VII [R6 = CH:CH2 or CHXCH2X (X = halo)], are active pesticides, but have LD50 20-200 mg/kg (rat) orally. Ring homologs, e.g. VIII (X = CH, N) are not pesticidal.

IT 933-90-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
(Hofmann degrdn. of)

RN 933-90-4 HCAPLUS

CN 2-Pyridinecarboxamide, 3-hydroxy- (9CI) (CA INDEX NAME)



L30 ANSWER 23 OF 23 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1974:413394 HCAPLUS

DOCUMENT NUMBER: 81:13394

TITLE: O-Ethyl O-(3-pyridyl) phosphoro(di)thioates

INVENTOR(S): Drabek, Jozef; Beriger, Ernst; Boehner, Beat

PATENT ASSIGNEE(S): Ciba-Geigy A.-G.

SOURCE: Ger. Offen., 27 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2350886	A1	19740418	DE 1973-2350886	19731010
CH 570765	A	19751231	CH 1972-15040	19721013
FR 2202894	A1	19740510	FR 1973-36527	19731012
JP 49075734	A2	19740722	JP 1973-114602	19731012
GB 1444619	A	19760804	GB 1973-47855	19731012
US 3957802	A	19760518	US 1975-541538	19750116
US 3957801	A	19760518	US 1975-541535	19750116
US 3968222	A	19760706	US 1975-541539	19750116
PRIORITY APPLN. INFO.:			CH 1972-15040	19721013
			CH 1973-12130	19730824
			US 1973-402647	19731001

AB Twenty-two EtO(RS)P-(Z)OPy (R = Pr, C5H11, or EtCHMe; Z = O or S; Py = substituted 3-pyridyl, e.g. contg. 2,6-ClMe, 2-NC, 6-Me, 2-Me2CH-NHCO, or 2,6-O2NMe), useful as **insecticides** and acaricides, were prepd. by reaction of PyOH with EtO(RS)P(Z)Cl in benzene in the presence of Et3N at 10-15.degree..

IT 52764-13-3

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with Et.Pr phosphorochloridothioates)

RN 52764-13-3 HCAPLUS

Robinson 09/830,923

CN 2-Pyridinecarboxamide, 3-hydroxy-N-(1-methylethyl)- (9CI) (CA INDEX NAME)

